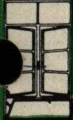


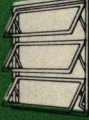
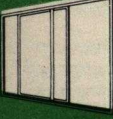





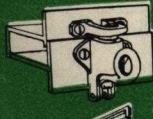

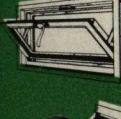


	Casement and Integral Fin Windows	2 to 7
	Hopper Vent Windows	8
	Basement and Utility Windows	9
	Double Hung Windows	10 to 12
	Awning Windows	13 to 20
	Horizontal Sliding Windows	21 to 24
	Jalousie Windows	25 to 26
	Select-A-Vent Windows	27 to 28
	Commercial Projected Windows	29 to 30
	Commercial Pivoted Windows	31 to 32
	Intermediate Projected Windows	33 to 34
	Commercial Hardware and Curtain Wall	35 to 36
	Ranch Window Wall	37
	Glass Block Windows	38 to 39
	Residential Awning Windows	40 to 41
	Verti-Slide Windows	42 to 43

THE COMPLETE LINE

Ualco

RECEIVED
SEP 20 1957
FOR IRON WORK

*Aluminum
Windows*

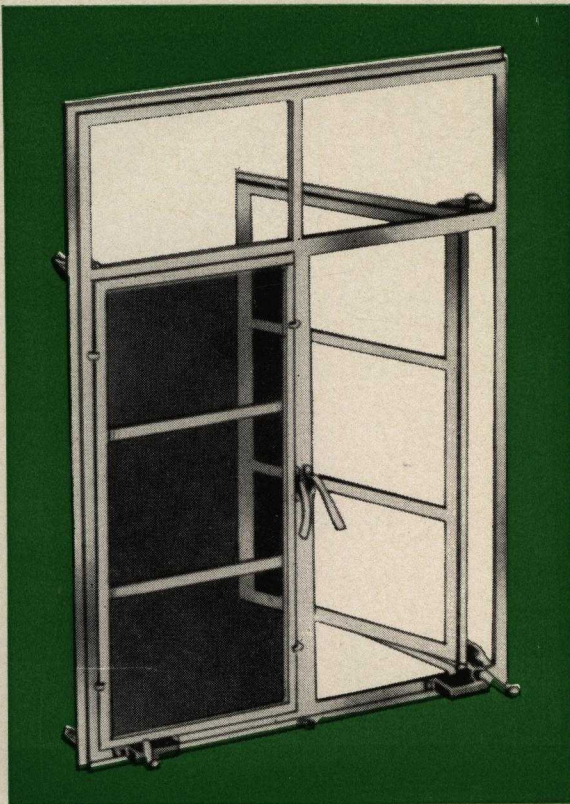
WORLD'S LARGEST MANUFACTURER
OF ALUMINUM WINDOWS

1956

CATALOG

SOUTHERN SASH SALES AND SUPPLY COMPANY, INC.
SHEFFIELD, ALABAMA

UALCO ALUMINUM CASEMENT WINDOWS STANDARD AND MODULAR



Ualco Aluminum Windows install easily and economically, require no up-keep, and add beauty and sales appeal to increase the resale and rental value for the life of the structure.

Their lifetime, natural, aluminum neatness harmonizes with any type construction. Muntins and frames are designed narrow for large, modular windows without lost strength. Drafts and ventilation are instantly controlled. Screens and storm sash are easily installed on the room side of the casement window.

Made of top quality extruded aluminum, Ualco windows cannot rust, rot, split or warp. They have a permanent satin-smooth finish. They withstand corrosion, damp and heat . . . never need scraping or painting. Economical. Lightweight.

SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: UALCO Lifetime Aluminum Casement Windows shall be fabricated of solid extruded aluminum, alloy 6063-T5, of not less than 22,000 P.S.I. tensile strength. Frame members shall not be less than 0.094" in thickness and not less than 0.125" in thickness at all weathering and outside edges. Ventilator members and muntins shall not be less than 0.125" in thickness at all weathering and outside edges.

Frame and vent members shall be not less than 1" in depth.

CONSTRUCTION: UALCO Lifetime Aluminum Casement Windows shall be electrically flash welded at all frame and vent corners. Muntins shall be firmly attached to their crossjoints and their abutting sash sections. Windows with transoms shall have an integral rain drip extruded in the transom member.

FINISH: Standard Finish shall be etched unless otherwise specified.

MULLIONS: Mullions shall be UALCO Standard Types and sizes.

ACCESSORIES: Accessories shall be UALCO Standard and shall consist of any of the following: Rain Drip, #2 Continuous Fin, #5 Brick Mould, Standard Fin Trim, Stucco Fin Trim, Asbestos Fin Trim, and Standard UALCO Anchor Clips.

HARDWARE: UALCO Lifetime Aluminum Casement Windows shall be equipped with Die Cast Rotary type underscreen operators and Die Cast Locking Handles, both with aluminum lacquer finish. Ventilators shall be attached to the frame with Aluminum Truss Type Hinges, riveted securely to both ventilator and frame.

SCREENS: Screens shall be fabricated of extruded or rolled aluminum frame members, mitered at the corners and joined by concealed corner reinforcing and Screen cloth shall be 18/14 mesh aluminum wire held in the frames by vinyl aluminum spline. Spline shall be removable to permit re-wiring of screens.

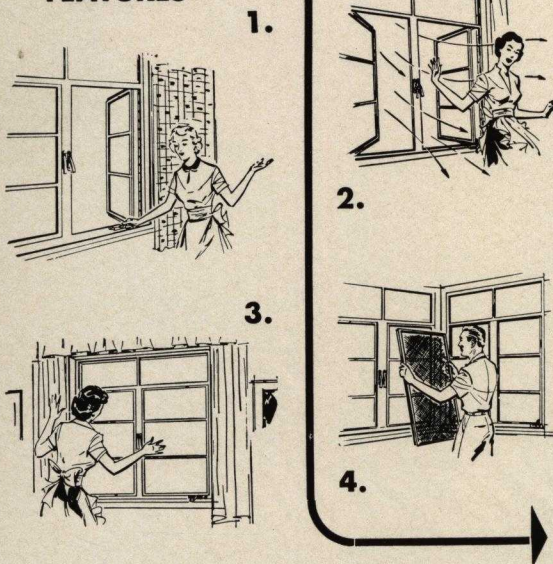
STORM SASH: Storm Sash shall be interchangeable with screens and shall be fabricated of extruded aluminum frame sections with vinyl weatherstripping. Storm Sash shall be factory glazed with DSB glass.

ERECTION: (Under separate contract) Windows shall be erected in prepared openings according to manufacturers installation instructions and drawings. Windows shall be set plumb, level, and square. Operating parts shall be protected from any foreign matter.

For installation in masonry walls, Fins, Anchoring accessories, and all window surfaces contacting masonry shall be given one coat of bituminous asphalt paint at points of contact with the masonry wall.

GLAZING: (Under separate contract) Glazing shall be with standard glass up to 1/4" in thickness. Lites shall be bedded in glazing compound, glazing clips inserted, and lites shall then be faced with glazing compound.

CASEMENT FEATURES



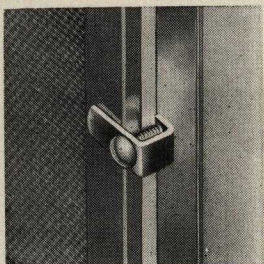
FEATURES OF UALCO CASEMENT WINDOWS

1. **EASE OF OPERATION**—Trouble-free. Opens easily, closes tightly. Cannot warp, swell or stick. They will never be "painted shut."
2. **100% VENTILATION** — Open completely to give complete ventilation. Slender frames and muntins provide greater "openness" for maximum light and view.
3. **GREATER WALL SPACE** — Be-

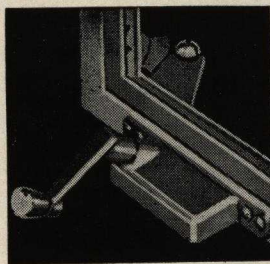
cause of more light area and narrow frames, more useable wall space is made available through Ualco Casements.

4. **EASY SCREENING**—Ualco Casements do away with outside weather beaten screens and ladder climbing. Screens installed easily from the inside and are interchangeable with storm sash.

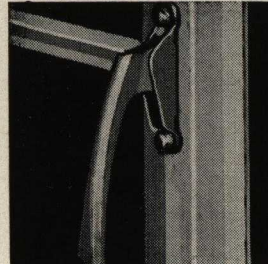
HARDWARE



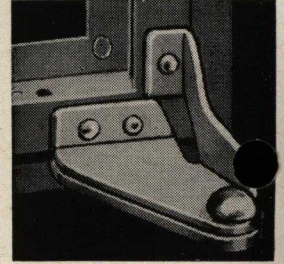
Attachment for securing the screen or storm sash to inside of casement window.



Rotary operator, under screen type. Lacquered die cast aluminum.



Easy action locking handle . . . lacquered die cast aluminum.



Truss-type cleaning hinge, riveted to frame and ventilator.

STANDARD SIZES

GLASS SIZES

	WIDTH	HEIGHT
1	15 3/4"	11 1/4"
2	15 3/4"	12"
3	17 1/4"	11 3/4"
4	17 1/4"	12 1/4"
5	15 3/4"	12 1/4"
6	21 1/4"	11 3/4"
7	21 1/4"	12 1/4"
8	19 3/4"	11 1/4"
9	19 3/4"	12"
10	17 1/4"	12"
11	15 3/4"	11 3/4"

★ THE DIMENSIONS SHOWN ARE OVER ALL

CODE

First number indicates (Lights, Wide).
Second number indicates (Lights High).
Third number indicates (No. of Vents).
Fourth number indicates (No. Lights in Each Vent).

1'-7 1/8"	1'-11 1/8"	3'-1"	3'-9 1/8"	3'-1"	3'-9 1/8"	4'-5 1/8"	5'-9 1/8"	7'-1 1/8"	8'-5 1/8"	2'-2"
1212	1212W	2212	2212W	2222	2222W	3222	4222	5222	6222	3311F
3'-2 1/4"	1313	1313W	2313	2313W	2323	2323W	3323	4323	5323	6323
4'-2 1/4"	1414	1414W	2414	2414W	2424	2424W	3424	4424	5424	6424
4'-2 1/2"	1413	1413W	2413	2413W	2423	2423W	3423	4423	5423	6423
5'-3"	1514	1514W	2514	2514W	2524	2524W	3524	4524	5524	6524
6'-3 1/2"	1614	1614W	2614	2614W	2624	2624W	3624	4624	5624	6624

MODULAR SIZES

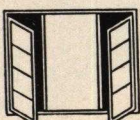
GLASS SIZES

	WIDTH	HEIGHT
1	12 3/4"	10 1/4"
2	13 1/4"	10 1/4"
3	17 1/4"	10 1/4"
4	20 3/4"	10 1/4"
5	15"	11"
6	19"	11"
7	19"	11 1/2"
8	14 3/4"	11 1/2"
9	15 3/4"	11"
10	15 3/4"	11 1/4"
11	13"	11"
12	13"	11 1/4"
13	12 3/4"	10 1/2"
14	12 3/4"	11 1/4"
15	13 1/4"	10 1/2"
16	13 1/4"	11 1/4"
17	17 1/4"	10 1/2"
18	17 1/4"	11 1/4"
19	20 3/4"	10 1/2"
20	20 3/4"	11 1/4"
21	14 1/4"	11 1/2"
22	22 1/4"	11 1/2"

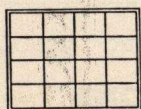
1'-4"	2'-0"	2'-8"	3'-4"	2'-8"	3'-4"	4'-0"	5'-4"	6'-0"	8'-0"	
2'-0"	B-1212	B-1212W	B-2212	B-2212W	B-2222	B-2222W	B-3222	B-4222	B-5222	B-6222
3'-0"										
	B-1313	B-1313W	B-2313	B-2313W	B-2323	B-2323W	B-3323	B-4323	B-5323	B-6323
4'-0"										
	B-1414	B-1414W	B-2414	B-2414W	B-2424	B-2424W	B-3424	B-4424	B-5424	B-6424
4'-0"										
	B-1413	B-1413W	B-2413	B-2413W	B-2423	B-2423W	B-3423	B-4423	B-5423	B-6423
5'-0"										
	B-1514	B-1514W	B-2514	B-2514W	B-2524	B-2524W	B-3524	B-4524	B-5524	B-6524
6'-0"										
	B-1614	B-1614W	B-2614	B-2614W	B-2624	B-2624W	B-3624	B-4624	B-5624	B-6624

NOTATIONS—Arrangement of muntins and mullions of Standard and Modular Ualco Casement Windows provides many varia-

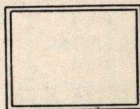
tions of designs to conform to all types of architectural requirements. NOTE: Always use Ualco catalog numbers and legend.



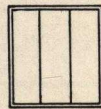
4424 Pc.



44 Fixed



44P



34HMO



3423



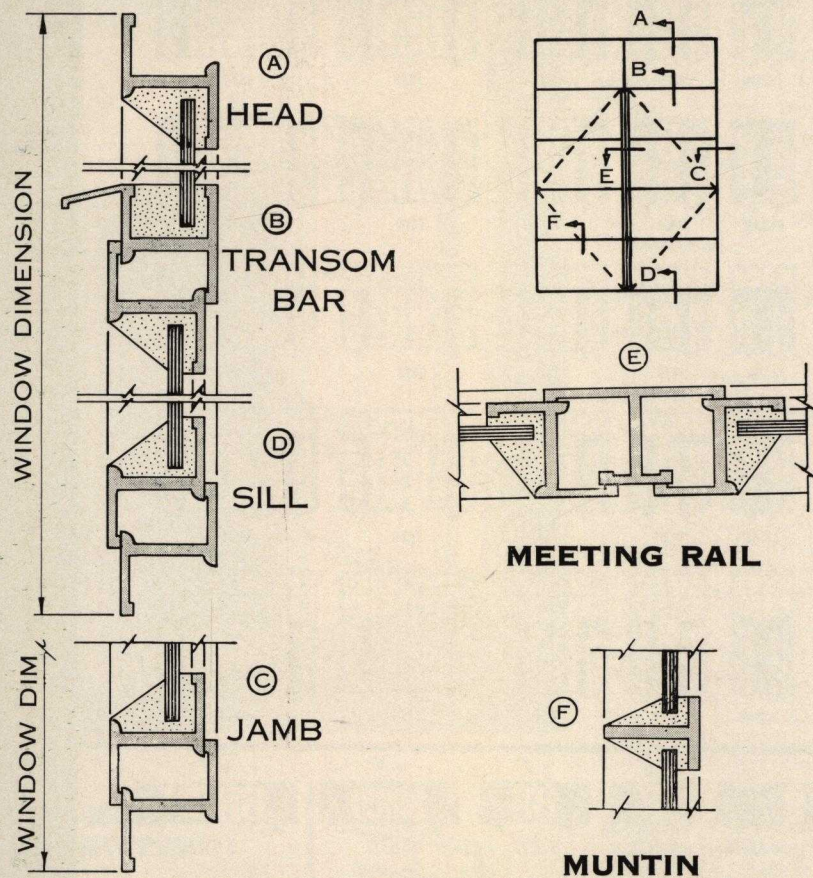
3423 CMO

Ualco

aluminum casement windows

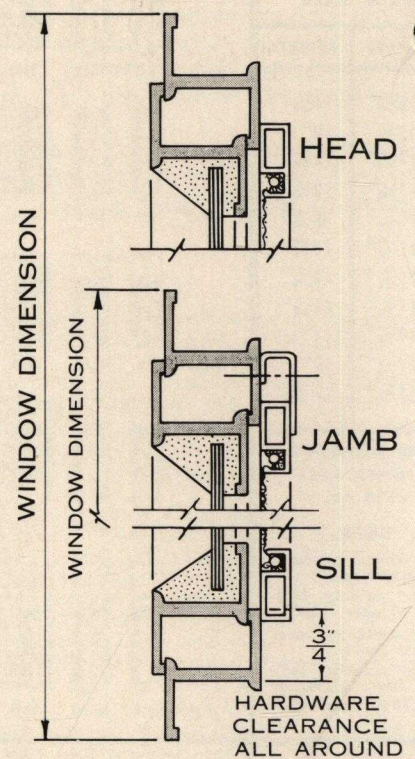
UALCO ALUMINUM CASEMENT WINDOWS

CASEMENT WINDOW SECTIONS



SCREEN INSTALLATION

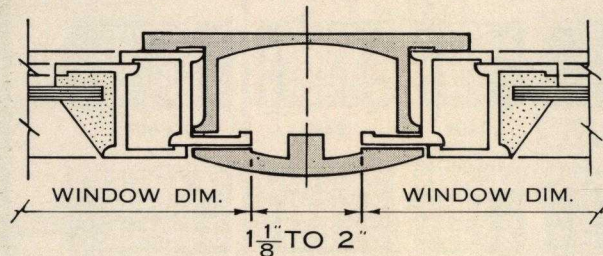
HALF SIZE



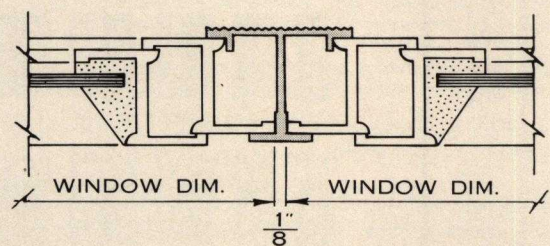
NOTE: SCREEN AND STORM SASH ARE INTERCHANGEABLE

MULLIONS

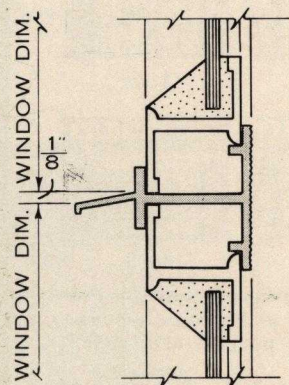
NOTE: BUTTER MULLIONS WITH CAULKING COMPOUND BEFORE ASSEMBLY



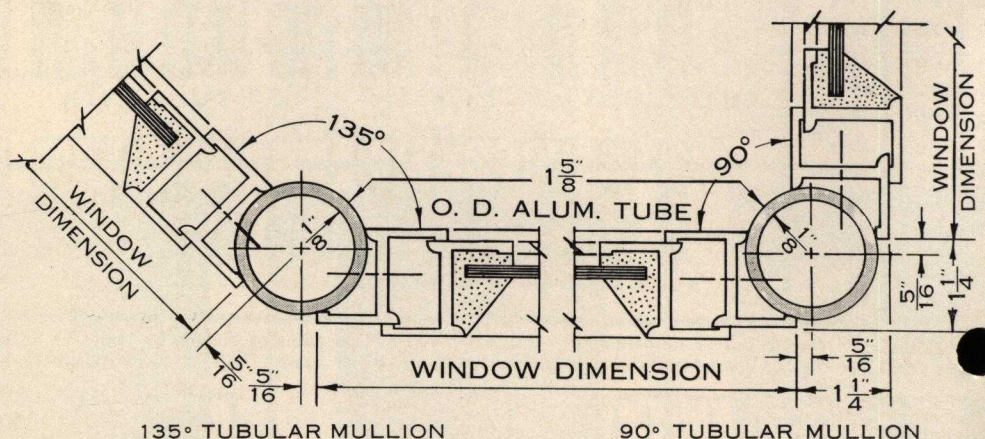
180° VARIABLE MULLION



STANDARD "TEE" MULLION



CASEMENT HORIZONTAL MULLION



135° TUBULAR MULLION

90° TUBULAR MULLION

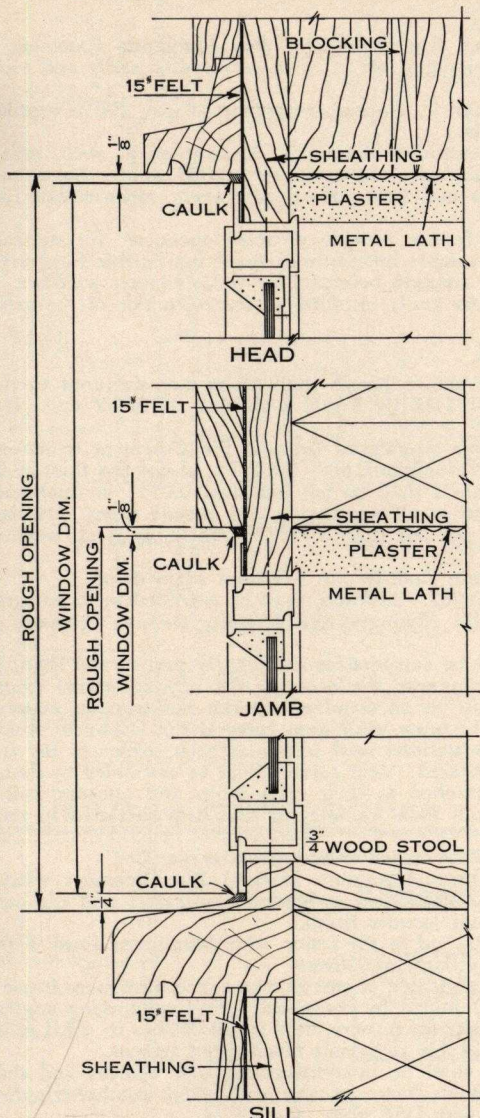
TUBULAR MULLIONS

INSTALLATION DETAILS

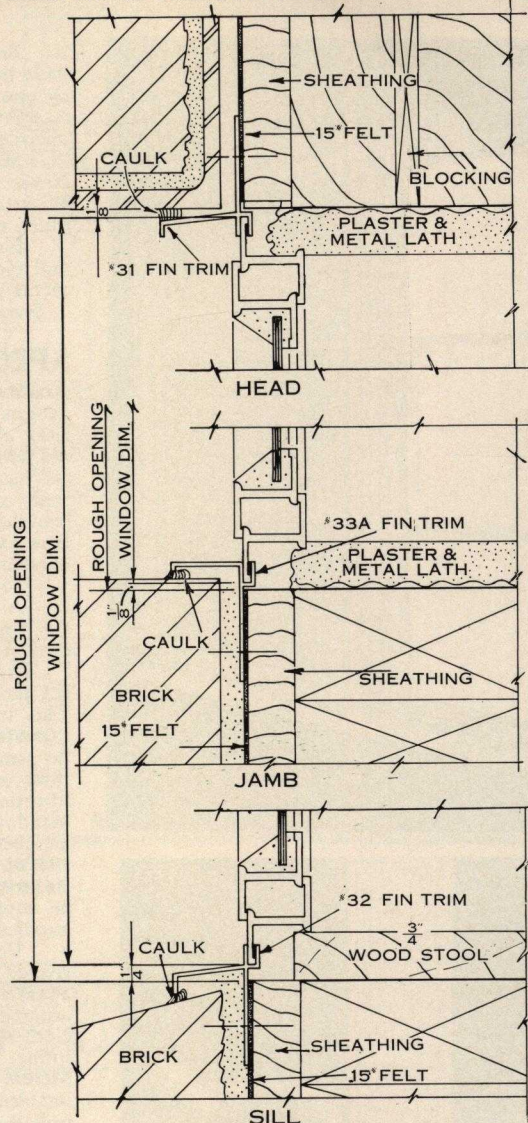
NOTE: ON ALL FIN TRIM, BRICK MOLD, AND MULLION INSTALLATIONS - BUTTER WITH CAULKING COMPOUND BEFORE ASSEMBLY.

Ualco

aluminum casement windows



FRAME CONSTRUCTION



BRICK VENEER

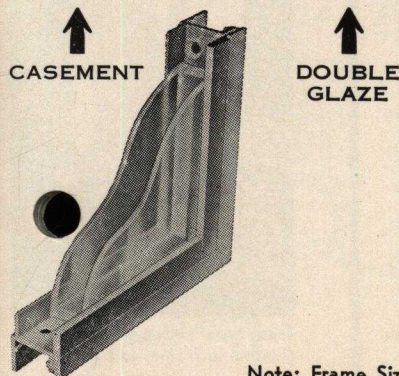
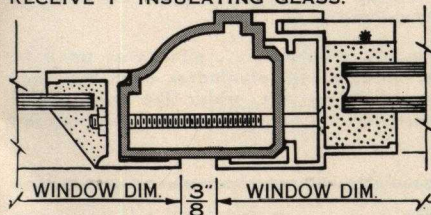
TWINSUL WINDOWS

TWINSUL double glazed units for picture windows and window walls.

CASEMENT REDUCER MULLION
*GLAZING SPLINE IS REVERSIBLE TO
RECEIVE 1" INSULATING GLASS.

TWINSUL SIZES

NOTE: TWINSUL WINDOWS ARE NOT ADAPTABLE TO
ANY OTHER STYLE WINDOWS EXCEPT CASEMENT.



frame no.	std. glass size		frame size overall		frame no.	std. glass size		frame size overall	
	width	height	width	height		width	height	width	height
D.G. 10	48 1/2"	46"	51 1/4"	48 3/4"	D.G. 260	96"	72"	98 3/4"	74 3/4"
D.G. 20	56 1/2"	46 1/8"	59 1/4"	48 7/8"	D.G. 270	46 1/8"	52 1/2"	48 7/8"	55 1/4"
D.G. 30	72 1/2"	46"	75 1/4"	48 3/4"	D.G. 280	58 1/8"	52 1/2"	60 7/8"	55 1/4"
D.G. 40	48 1/2"	50"	51 1/4"	52 1/4"	D.G. 290	70 1/8"	52 1/2"	72 7/8"	55 1/4"
D.G. 50	56 1/2"	50"	59 1/4"	52 3/4"	D.G. 300	46 1/8"	56 1/2"	48 7/8"	59 1/4"
D.G. 60	64 1/2"	50"	67 1/4"	52 3/4"	D.G. 310	58 1/8"	56 1/2"	60 7/8"	59 1/4"
D.G. 70	72 1/2"	50"	75 1/4"	52 3/4"	D.G. 320	70 1/8"	56 1/2"	72 7/8"	59 1/4"
D.G. 80	80 1/2"	50"	83 1/4"	52 3/4"	D.G. 330	35 1/2"	36"	38 1/4"	38 3/4"
D.G. 90	96 1/2"	50"	99 1/4"	52 3/4"	D.G. 340	48"	48"	50 3/4"	50 3/4"
D.G. 100	64 1/2"	58"	67 1/4"	60 3/4"	D.G. 350	72"	48"	74 3/4"	50 3/4"
D.G. 110	72 1/2"	58"	75 1/4"	60 3/4"	D.G. 360	35 1/2"	48 1/8"	38 1/4"	50 7/8"
D.G. 120	80 1/2"	58"	83 1/4"	60 3/4"	D.G. 370	55 1/4"	48 1/8"	58"	50 7/8"
D.G. 130	96 1/2"	58"	99 1/4"	60 3/4"	D.G. 380	75"	48 1/8"	77 3/4"	50 7/8"
D.G. 140	116 1/2"	58"	119 1/4"	60 3/4"	D.G. 390	48"	60"	50 3/4"	62 3/4"
D.G. 150	56 1/2"	66"	59 1/4"	68 3/4"	D.G. 400	72"	60"	74 3/4"	62 3/4"
D.G. 170	72 1/2"	66"	75 1/4"	68 3/4"	D.G. 410	35 1/2"	60 3/8"	38 1/4"	63 1/8"
D.G. 180	42"	66"	44 3/4"	68 3/4"	D.G. 420	55 1/4"	60 3/8"	58"	63 1/8"
D.G. 200	42"	72"	44 3/4"	74 3/4"	D.G. 430	75"	60 3/8"	77 3/4"	63 1/8"
D.G. 220	84"	66"	86 3/4"	68 3/4"	D.G. 34	50 3/8"	47 7/8"	53 1/8"	50 7/8"
D.G. 230	84"	72"	86 3/4"	74 3/4"	D.G. 35	50 3/8"	60 1/4"	53 1/8"	63"
D.G. 240	64 1/2"	66"	67 1/4"	68 3/4"	D.G. 44	66 5/8"	47 7/8"	69 3/8"	50 7/8"
D.G. 250	96"	66"	98 3/4"	68 3/4"	D.G. 45	66 5/8"	60 1/4"	69 3/8"	63"

Note: Frame Size is outside dimensions. Only Nos. 34, 35, 44, 45 adaptable to standard Ualco casements by mullion.

UALCO ALUMINUM INTEGRAL FIN CASEMENT WINDOWS



Brand new construction feature: New Ualco Aluminum Casement Windows have both integral fin and integral sill . . . can be installed easily and economically by one man.

Popular Casement design . . . opens completely to give 100% ventilation . . . opens easily . . . closes tightly.

Made of top quality extruded aluminum. Cannot warp, swell, split or stick. Never need scraping or painting (will never be painted shut). Never rust or rot. Withstand corrosion, damp and heat. Have permanent satin-smooth finish. Require no upkeep—ever!

Narrow muntins and frames provide greater "openness" for maximum light and view . . . afford more usable interior wall space for flexible furniture arrangements . . . have the tensile strength necessary for today's larger windows.

Screens and storm sash are easily installed on the room side of the casement.

SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: UALCO Lifetime Aluminum Integral Fin Casement windows shall be fabricated of solid extruded aluminum, alloy 6063-T5, of not less than 22,000 P.S.I. tensile strength. Frame members shall be not less than 0.094" in thickness and not less than 0.125" in thickness at all weathering and outside edges. Ventilator members and muntins shall be not less than 0.125" in thickness at all weathering and outside edges.

Frame and vent members shall be not less than 1" in depth.

A Fin, 1 1/4" wide by 0.062" thickness, shall be extruded as an integral part of the frame sections. This fin eliminates the necessity for any accessory attaching devices.

Appropriate trim shall be extruded as an integral part of the head, jamb and sill members, which will eliminate the necessity for any additional exterior trim. This trim shall be adaptable to all standard exterior construction materials.

CONSTRUCTION: UALCO Lifetime Aluminum Integral Fin Casement windows shall be assembled with two #8 stainless steel screws at each corner of the frame, and these corners shall then be brazed. Vent corners shall be assembled by flash welding. Muntins shall be firmly attached to their cross joints and abutting sash sections. Windows with transoms shall have an integral rain drip extruded in the transom member.

FINISH: Standard finish shall be etched unless otherwise specified.

HARDWARE: UALCO Lifetime Aluminum Integral Fin Casement windows shall be equipped with die cast rotary type underscreen operators and die cast locking handles, both with aluminum lacquer finish.

Ventilators shall be attached to the frame with Aluminum Truss Type hinges, riveted securely to both ventilator and frame.

SCREENS: Screens shall be fabricated of extruded or rolled aluminum frame members mitered at the corners and joined by concealed corner reinforcing angles. Screen cloth shall be 18/14 mesh aluminum wire, held in the frames by vinyl or aluminum spline. Spline shall be removable to permit re-wiring of screens.

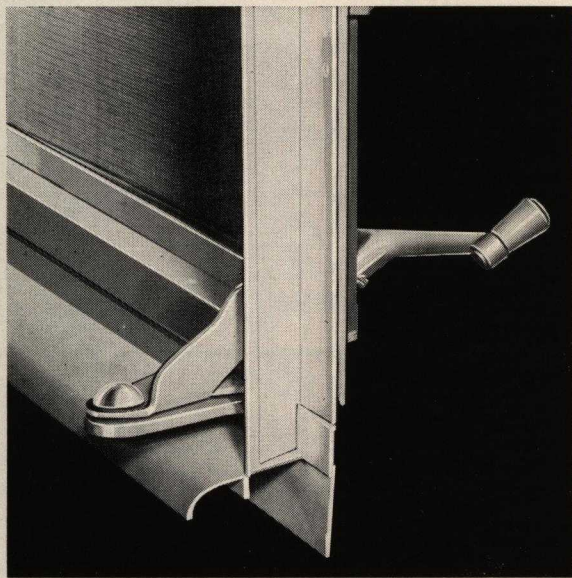
STORM SASH: Storm sash shall be interchangeable with screens and shall be assembled of extruded aluminum frame sections with vinyl weatherstripping. Storm sash shall be factory glazed with DSB glass.

ERECTION: (Under separate contract) Windows shall be erected in prepared openings according to Manufacturers installation instructions and drawings. Windows shall be set plumb, level, and square. Operating parts shall be protected from any foreign matter.

For installation in masonry walls, Fins, Anchoring accessories, and all window surfaces contacting masonry shall be given one coat of bituminous asphalt paint at points of contact with the masonry wall.

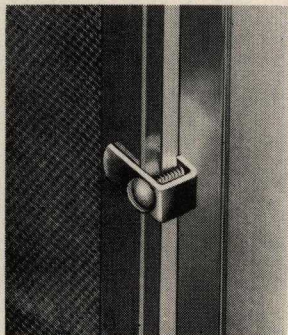
GLAZING: (Under separate contract) Glazing shall be with standard glass up to 1/4" in thickness. Lites shall be bedded with glazing compound, glazing clips inserted, and lites shall then be faced with glazing compound.

Integral fin completely surrounds window . . . eliminates need for accessory attaching devices. Integral sill eliminates need for additional exterior trim . . . gives building sills, which like Ualco Aluminum Casements, are rust proof; never flake; never need scraping and painting.

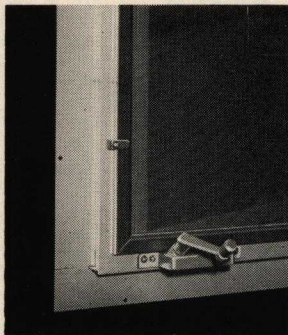


NEW! INTEGRAL FIN AND SILL

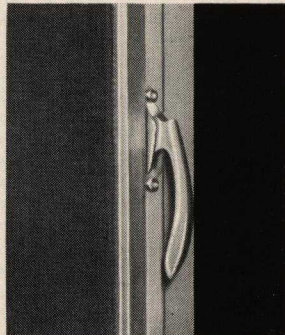
HARDWARE



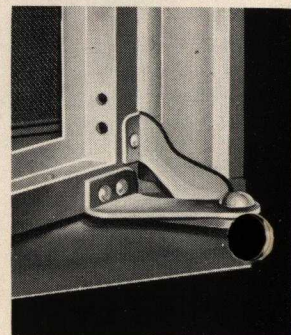
Attachment for securing screens or storm sash to inside of casement window.



Rotary operator, under screen type. Lacquered die cast aluminum.



Easy action locking handle . . . lacquered die cast aluminum.

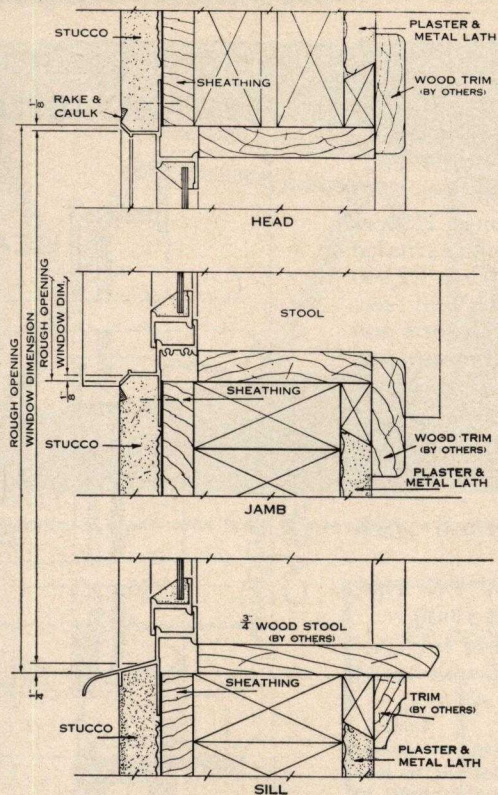


Truss-type self cleaning hinge, riveted to frame and ventilator.

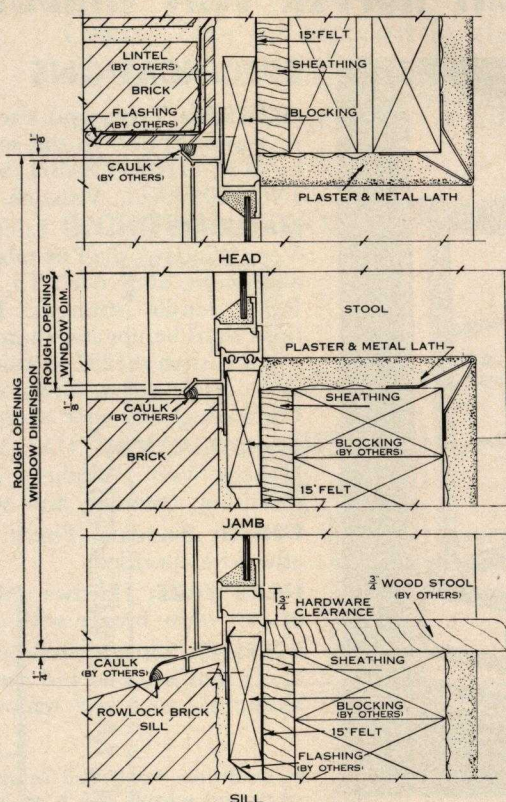
INSTALLATION DETAILS

Ualco

aluminum integral fin casement windows



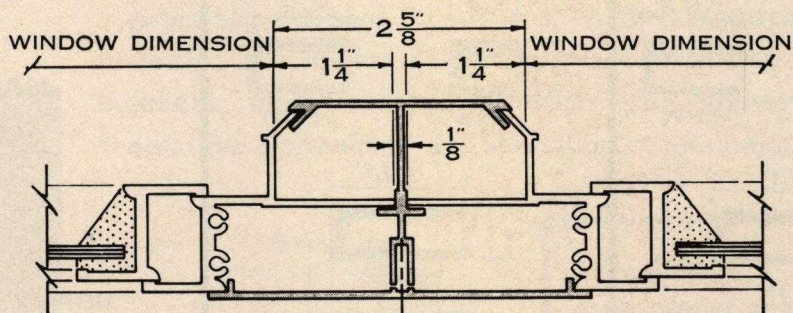
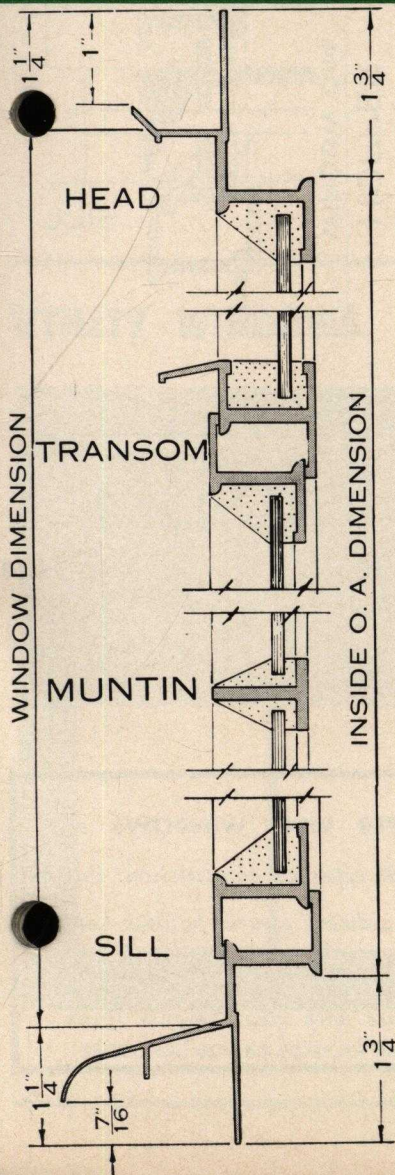
STUCCO CONSTRUCTION



BRICK VENEER

ASSEMBLY DETAILS

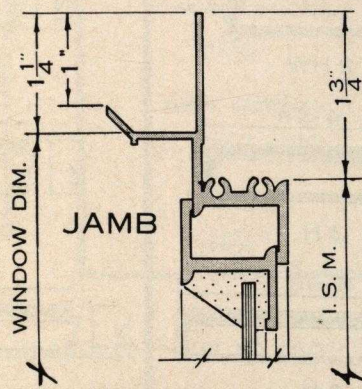
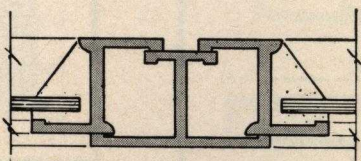
NOTE: UALCO ALUMINUM INTEGRAL FIN CASEMENT WINDOWS ARE AVAILABLE IN BOTH STANDARD AND MODULAR SIZES AS SHOWN FOR REGULAR CASEMENTS ON PAGE 3. WINDOW DIMENSIONS AS INDICATED ON PAGE 3 DO NOT INCLUDE FIN DIMENSIONS! SEE PAGE 3 FOR GLASS SIZES.



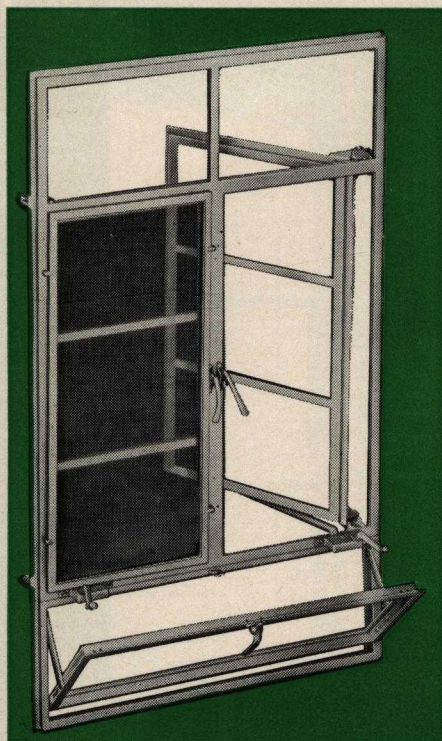
INTEGRAL FIN CASEMENT MULLION

HALF SIZE

MEETING RAIL



UALCO CASEMENT HOPPER VENT WINDOWS



**SELF-MULLING
CASEMENT WINDOW
WITH HOPPER**

SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: UALCO Lifetime Aluminum Hopper Vent Windows shall be fabricated of solid extruded aluminum, alloy 6063-T5, of not less than 22,000 P.S.I. tensile strength. Frame and Vent sections shall be not less than 0.094" in thickness and not less than 0.125" in thickness at all weathering and outside edges, and not less than 1" in depth. Positioning arm slide shoe shall be nylon.

CONSTRUCTION: UALCO Lifetime Aluminum Hopper Vent Windows shall be assembled by mortising, tenoning and swedging.

FINISH: Standard Finish shall be etched unless otherwise specified.

HARDWARE: Hardware shall be cam lock type, of cast white bronze with clear lacquer finish.

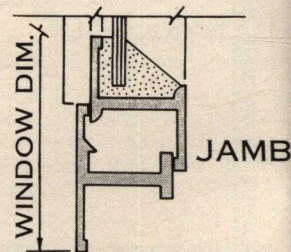
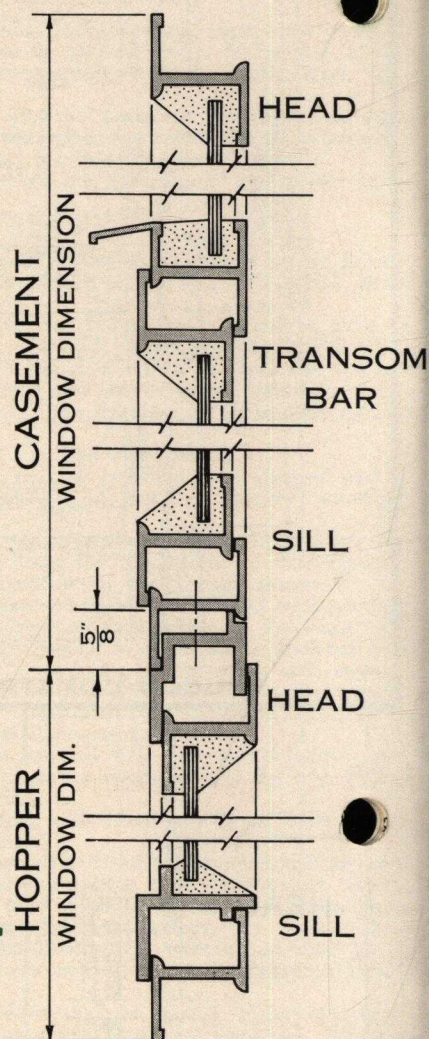
SCREENS: Screens shall be fabricated of extruded aluminum sections and shall be wired with 18/14 aluminum wire and removable vinyl spline.

• Draft-free, controlled ventilation is important in hospitals and schools and is an asset to personal comfort in all residential, commercial, public and apartment buildings.

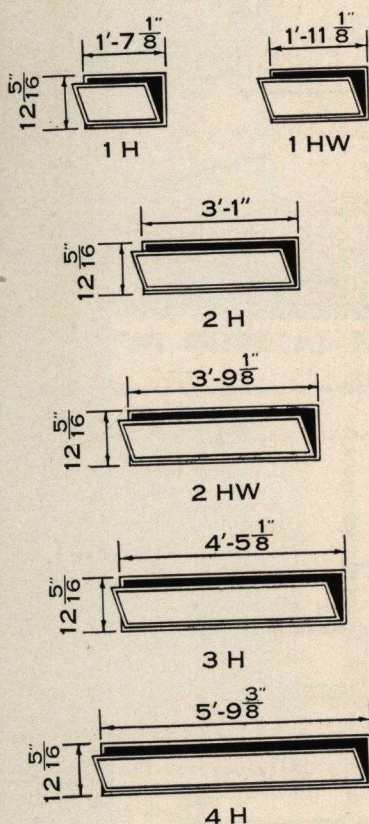
For any type construction, for any mode decoration . . . specify UALCO Lifetime Aluminum Hopper Windows for maximum draft-free, rain-free ventilation control. Hoppers are easily opened, regulated and closed.

UALCO hopper vents are manufactured from extruded solid aluminum sections. Their beautiful satin-smooth finish resists decay and corrosion for the life of the building . . . without maintenance costs. No painting. No scraping.

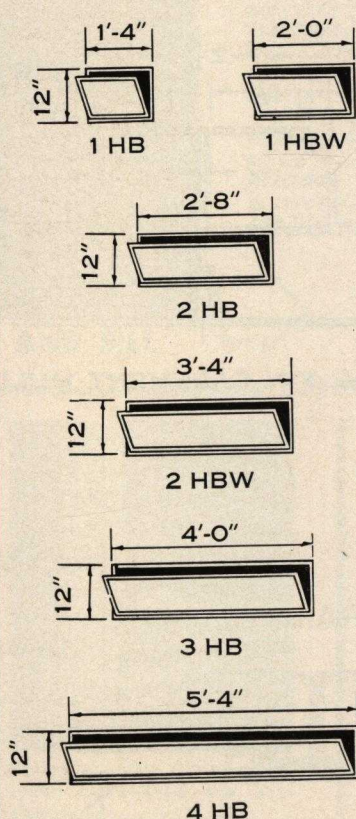
HOPPER VENT SECTION ASSEMBLY DETAILS



MODULAR SIZES



STANDARD SIZES

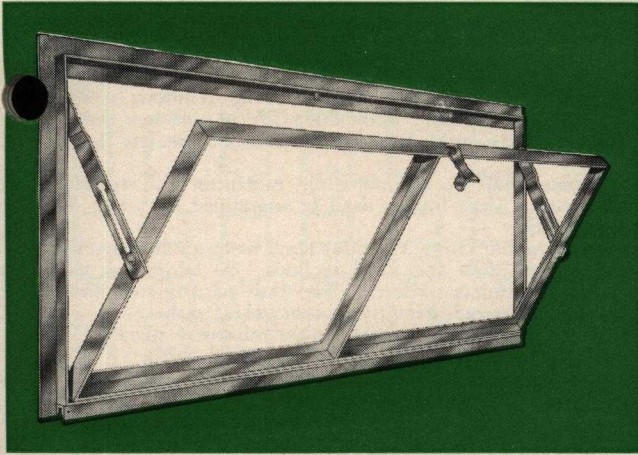


HALF SIZE

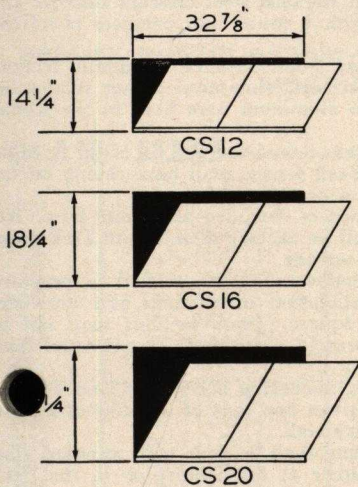
NOTE:
**HOPPER HEIGHT
IS NOT
OVERALL DIMENSION.**

UALCO HOPPER VENT WINDOWS are adaptable to all types of construction. Factory installed hardware assures positive holding at any ventilation setting. Locking handles are white Bronze with clear lacquer finish.

BASEMENT WINDOWS



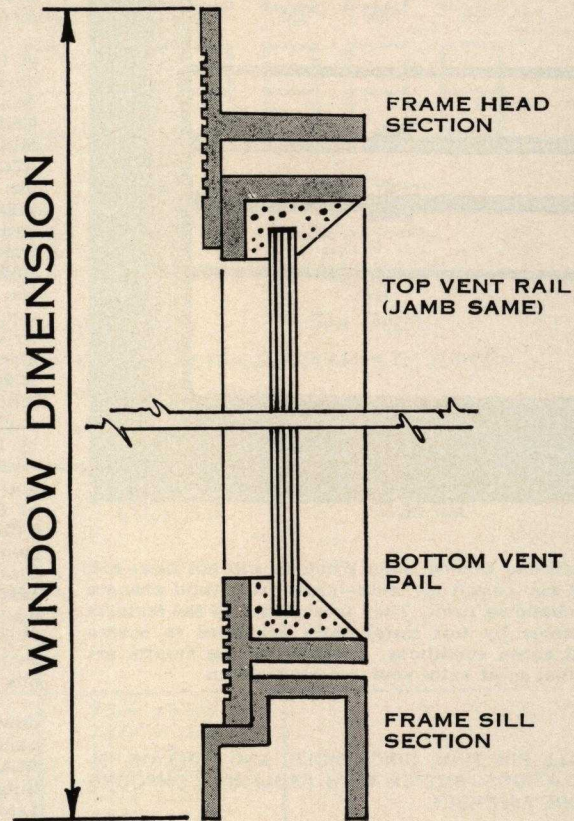
Ventilator Removable From Frame—Easy to Replace



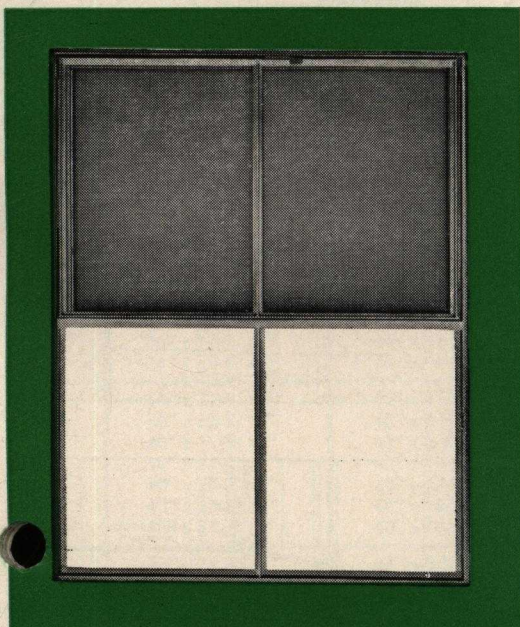
GLASS SIZES	
NO. LITES	SIZES
2	15" x 12"
2	15" x 16"
2	15" x 20"

For basement windows, specify low cost Ualco. Tops for economy in glazing . . . for 100% ventilation . . . for economy in installation. Require no maintenance. First cost is last cost.

SECTIONAL DETAILS (Scale Full Size)



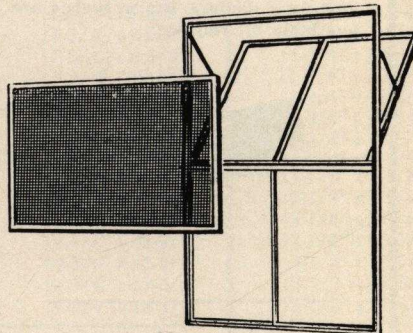
UTILITY WINDOWS



SECTIONAL DETAILS SAME AS BASEMENT

Especially designed for low cost window requirements in public and private garages, shops, warehouses, farm buildings, filling stations. Provides trim appearance, ventilation, convenience and sanitation at minimum cost.

☆ Screen and storm sash available.



SIZES

GLASS OPENING SECTION

(2) 15" x 20"

WINDOW HEIGHT

42 5/8"

FIXED SECTION

(2) 15 5/8" x 20"

WIDTH

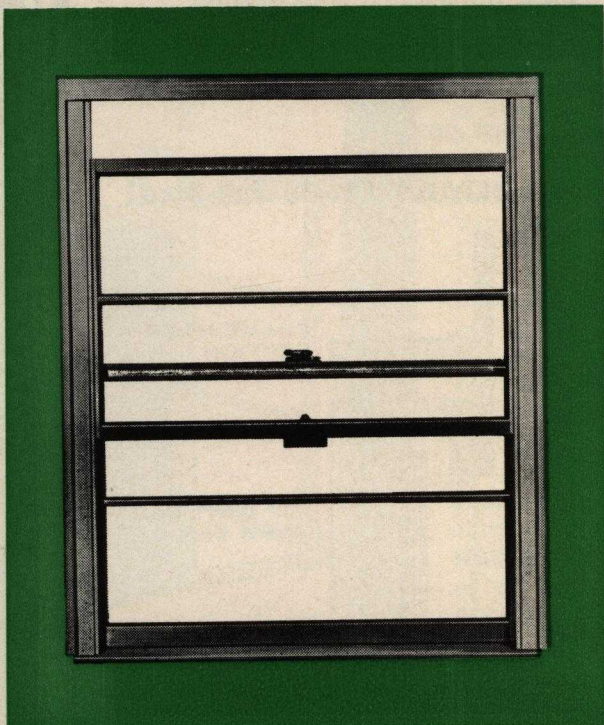
32 7/8"

NOTE: WINDOW DIM. IS MEASURED "OUT TO OUT"

Ualco

aluminum basement and utility windows

UALCO ALUMINUM DOUBLE HUNG WINDOWS



UALCO Aluminum Double Hung Windows will not flex—will neither bind nor permit air leaks—unless structural changes occur in the building itself. They incorporate all the features proven desirable by test installations subjected to severe weather and strain conditions. Available in the muntin arrangement that most suits your building design.

NOTE: ON ALL FIN TRIM, BRICK MOLD, AND MULLION INSTALLATIONS—BUTTER WITH CAULKING COMPOUND BEFORE ASSEMBLY.

SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: UALCO Lifetime Aluminum Double Hung Windows shall be fabricated of solid extruded aluminum, alloy 6063-T5, of not less than 22,000 P.S.I. tensile strength. Frame and vent members shall be not less than 0.062" in thickness.

CONSTRUCTION: Frames shall be assembled by mortising and tenoning and firmly riveting the corners. Vent frames shall be assembled with two #6 sheet metal screws at each corner.

UALCO Lifetime Double Hung Windows shall have an Integral Fin 3/4" in width, extruded on the jamb and head sections. No additional anchoring devices shall be necessary, unless specified. The sash parting strip shall be so designed that it may be removed, permitting removal of sash.

FINISH: Standard finish shall be mill finish unless otherwise specified.

MULLION: Mullions shall be UALCO Standard types and sizes.

ACCESSORIES: Accessories shall include standard UALCO Anchor Clips for use at the sill, and at the jamb and head if so desired.

WEATHERSTRIPPING: All vertical weatherstripping shall be of stainless steel, securely fastened to the jamb of the sash. All horizontal weatherstripping at the head, meeting rail and sill shall be vinyl.

HARDWARE: Each lower sash shall be equipped with an integrally extruded lift. All top sash shall be equipped with pull handles secured to the bottom rail. Each window shall be equipped with stainless steel crescent fastener and strike. Each window shall be equipped with 4 spiral sash balances of adjustable type.

SCREENS: Screen frames shall be fabricated from extruded aluminum sections mitered at the corners and joined by concealed aluminum corner reinforcing angles. Screen cloth shall be 18/14 mesh aluminum wire held in the frames by removable vinyl spline.

Screens shall fit into integral screen slots at the head and sill of the window, and shall be removable from the inside. Each screen shall have thumb latches at the lower corners, which shall serve also as screen lifts.

STORM SASH: Storm Sash shall be fabricated of extruded aluminum frame sections with vinyl weatherstripping, and shall be factory glazed with DSB glass. Storm sash shall be interchangeable with screens.

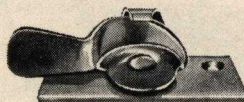
ERECTION: (Under separate contract) Windows shall be erected in prepared openings according to Manufacturer's installation instructions and drawings. Windows shall be set plumb, level, and square. Jamb sections shall not be twisted or distorted in any manner. Operating parts shall be protected from any foreign matter.

For installations in masonry wall, fins, anchoring accessories, and all window surfaces contacting masonry shall be given one coat of bituminous asphalt paint at points of contact with the masonry wall.

GLAZING: (Under separate contract) Glazing shall be done with standard glass Single or Double strength in thickness either at the factory or in the field. Lites shall be bedded in glazing compound, glazing clips inserted, and lites shall then be faced with glazing compound.

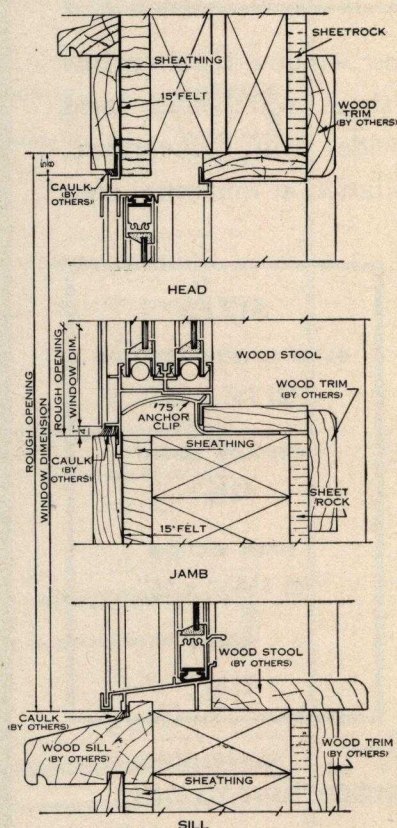
DOUBLE HUNG HARDWARE

The sash lock shown offers protection against forced entry, and locks the window tight against strong winds. Hardware on all UALCO Lifetime Aluminum windows is stainless steel for long service life. Aluminum screens are available from Union Aluminum Company and their dealers. Storm sashes are available on request.



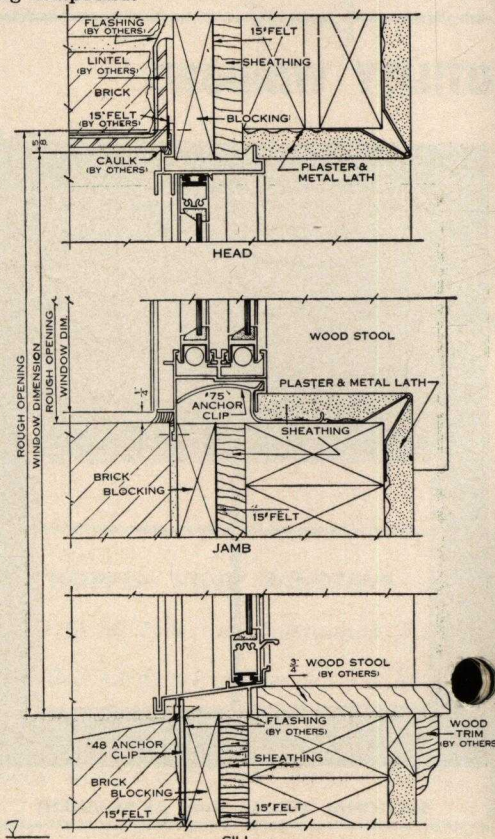
WEATHERSTRIPPED with Stainless Steel and Koroseal Built-in insulation make Ualco Double Hung Windows, draft-free, dust-free.

Installation Details



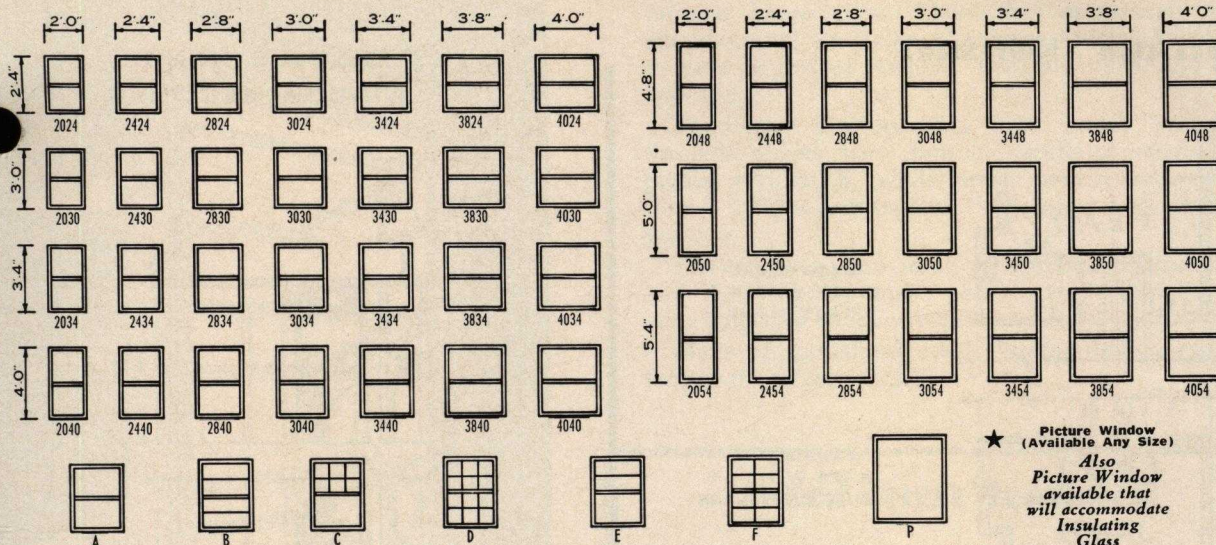
FRAME CONSTRUCTION

Installation Details



BRICK VENEER

NOTE: SIZES AS SHOWN ARE WINDOW DIMENSION, NOT OVERALL.



Note: Upper and lower sash have same glass sizes.

See Details

SPECIFY MUNTIN ARRANGEMENT WITH CATALOG NUMBER WHEN ORDERING—EXAMPLE: B-2024
SPECIAL SIZE DOUBLE HUNG WINDOWS NOT AVAILABLE!

GLASS SIZES

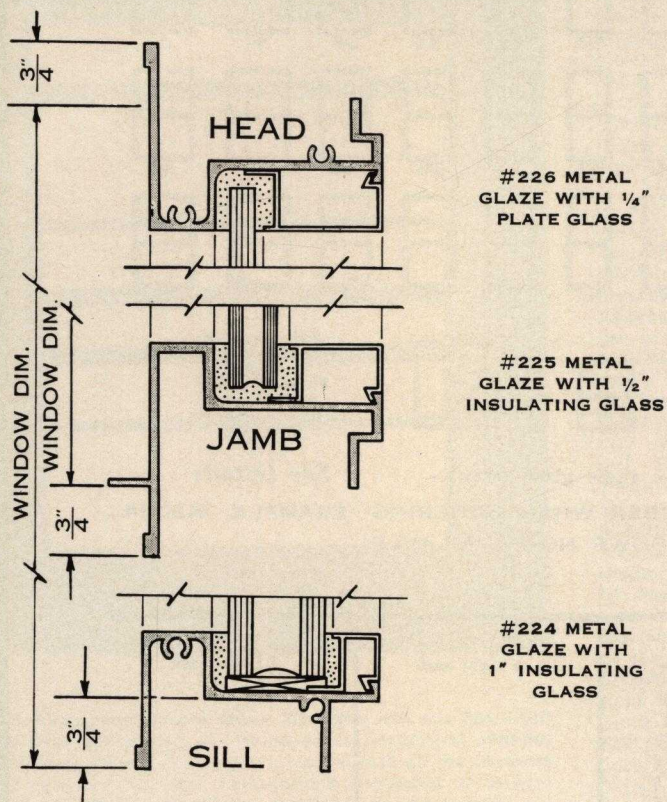
Sizes	1 Light Sash	2 Light Sash	4 Light Sash	6 Light Sash	8 Light Sash
2024	20" x 11-9/16"	20" x 5-5/8"	9-3/4" x 5-5/8"		
2030	20" x 15-9/16"	20" x 7-5/8"	9-3/4" x 7-5/8"		
2034	20" x 17-9/16"	20" x 8-5/8"	9-3/4" x 8-5/8"		
2040	20" x 21-9/16"	20" x 10-5/8"	9-3/4" x 10-5/8"		
2048	20" x 25-9/16"	20" x 12-5/8"	9-3/4" x 12-5/8"		
2050	20" x 27-9/16"	20" x 13-5/8"	9-3/4" x 13-5/8"		
2054	20" x 29-9/16"	20" x 14-5/8"	9-3/4" x 14-5/8"		
2424	24" x 11-9/16"	24" x 5-5/8"	11-3/4" x 5-5/8"	7-3/4" x 5-5/8"	
2430	24" x 15-9/16"	24" x 7-5/8"	11-3/4" x 7-5/8"	7-3/4" x 7-5/8"	
2434	24" x 17-9/16"	24" x 8-5/8"	11-3/4" x 8-5/8"	7-3/4" x 8-5/8"	
2440	24" x 21-9/16"	24" x 10-5/8"	11-3/4" x 10-5/8"	7-3/4" x 10-5/8"	
2448	24" x 25-9/16"	24" x 12-5/8"	11-3/4" x 12-5/8"	7-3/4" x 12-5/8"	
2450	24" x 27-9/16"	24" x 13-5/8"	11-3/4" x 13-5/8"	7-3/4" x 13-5/8"	
2454	24" x 29-9/16"	24" x 14-5/8"	11-3/4" x 14-5/8"	7-3/4" x 14-5/8"	
2824	28" x 11-9/16"	28" x 5-5/8"	13-3/4" x 5-5/8"	9-1/8" x 5-5/8"	
2830	28" x 15-9/16"	28" x 7-5/8"	13-3/4" x 7-5/8"	9-1/8" x 7-5/8"	
2834	28" x 17-9/16"	28" x 8-5/8"	13-3/4" x 8-5/8"	9-1/8" x 8-5/8"	
2840	28" x 21-9/16"	28" x 10-5/8"	13-3/4" x 10-5/8"	9-1/8" x 10-5/8"	
2848	28" x 25-9/16"	28" x 12-5/8"	13-3/4" x 12-5/8"	9-1/8" x 12-5/8"	
2850	28" x 27-9/16"	28" x 13-5/8"	13-3/4" x 13-5/8"	9-1/8" x 13-5/8"	
2854	28" x 29-9/16"	28" x 14-5/8"	13-3/4" x 14-5/8"	9-1/8" x 14-5/8"	
3024	32" x 11-9/16"	32" x 5-5/8"	15-3/4" x 5-5/8"	10-7/16" x 5-5/8"	
3030	32" x 15-9/16"	32" x 7-5/8"	15-3/4" x 7-5/8"	10-7/16" x 7-5/8"	
3034	32" x 17-9/16"	32" x 8-5/8"	15-3/4" x 8-5/8"	10-7/16" x 8-5/8"	
3040	32" x 21-9/16"	32" x 10-5/8"	15-3/4" x 10-5/8"	10-7/16" x 10-5/8"	
3048	32" x 25-9/16"	32" x 12-5/8"	15-3/4" x 12-5/8"	10-7/16" x 12-5/8"	
3050	32" x 27-9/16"	32" x 13-5/8"	15-3/4" x 13-5/8"	10-7/16" x 13-5/8"	
3054	32" x 29-9/16"	32" x 14-5/8"	15-3/4" x 14-5/8"	10-7/16" x 14-5/8"	
3424	36" x 11-9/16"	36" x 5-5/8"	17-3/4" x 5-5/8"	11-3/4" x 5-5/8"	8-21/32" x 5-5/8"
3430	36" x 15-9/16"	36" x 7-5/8"	17-3/4" x 7-5/8"	11-3/4" x 7-5/8"	8-21/32" x 7-5/8"
3434	36" x 17-9/16"	36" x 8-5/8"	17-3/4" x 8-5/8"	11-3/4" x 8-5/8"	8-21/32" x 8-5/8"
3440	36" x 21-9/16"	36" x 10-5/8"	17-3/4" x 10-5/8"	11-3/4" x 10-5/8"	8-21/32" x 10-5/8"
3448	36" x 25-9/16"	36" x 12-5/8"	17-3/4" x 12-5/8"	11-3/4" x 12-5/8"	8-21/32" x 12-5/8"
3450	36" x 27-9/16"	36" x 13-5/8"	17-3/4" x 13-5/8"	11-3/4" x 13-5/8"	8-21/32" x 13-5/8"
3454	36" x 29-9/16"	36" x 14-5/8"	17-3/4" x 14-5/8"	11-3/4" x 14-5/8"	8-21/32" x 14-5/8"
3824	40" x 11-9/16"	40" x 5-5/8"	19-3/4" x 5-5/8"	13-1/8" x 5-5/8"	9-21/32" x 5-5/8"
3830	40" x 15-9/16"	40" x 7-5/8"	19-3/4" x 7-5/8"	13-1/8" x 7-5/8"	9-21/32" x 7-5/8"
3834	40" x 17-9/16"	40" x 8-5/8"	19-3/4" x 8-5/8"	13-1/8" x 8-5/8"	9-21/32" x 8-5/8"
3840	40" x 21-9/16"	40" x 10-5/8"	19-3/4" x 10-5/8"	13-1/8" x 10-5/8"	9-21/32" x 10-5/8"
3848	40" x 25-9/16"	40" x 12-5/8"	19-3/4" x 12-5/8"	13-1/8" x 12-5/8"	9-21/32" x 12-5/8"
3850	40" x 27-9/16"	40" x 13-5/8"	19-3/4" x 13-5/8"	13-1/8" x 13-5/8"	9-21/32" x 13-5/8"
3854	40" x 29-9/16"	40" x 14-5/8"	19-3/4" x 14-5/8"	13-1/8" x 14-5/8"	9-21/32" x 14-5/8"
4024	44" x 11-9/16"	44" x 5-5/8"	21-3/4" x 5-5/8"	14-7/16" x 5-5/8"	10-21/32" x 5-5/8"
4030	44" x 15-9/16"	44" x 7-5/8"	21-3/4" x 7-5/8"	14-7/16" x 7-5/8"	10-21/32" x 7-5/8"
4034	44" x 17-9/16"	44" x 8-5/8"	21-3/4" x 8-5/8"	14-7/16" x 8-5/8"	10-21/32" x 8-5/8"
4040	44" x 21-9/16"	44" x 10-5/8"	21-3/4" x 10-5/8"	14-7/16" x 10-5/8"	10-21/32" x 10-5/8"
4048	44" x 25-9/16"	44" x 12-5/8"	21-3/4" x 12-5/8"	14-7/16" x 12-5/8"	10-21/32" x 12-5/8"
4050	44" x 27-9/16"	44" x 13-5/8"	21-3/4" x 13-5/8"	14-7/16" x 13-5/8"	10-21/32" x 13-5/8"
4054	44" x 29-9/16"	44" x 14-5/8"	21-3/4" x 14-5/8"	14-7/16" x 14-5/8"	10-21/32" x 14-5/8"

Ualco

aluminum double hung windows

UALCO ALUMINUM DOUBLE HUNG WINDOWS

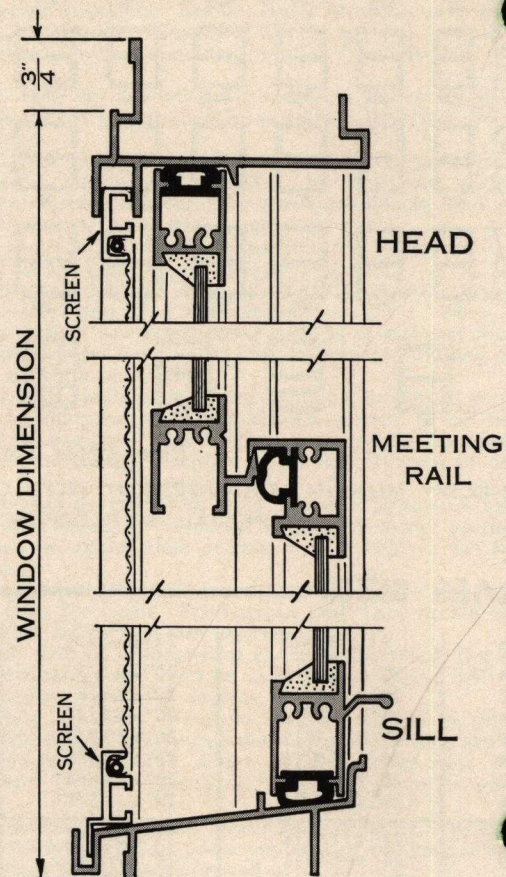
ASSEMBLY DETAILS (Half Size)



**DOUBLE HUNG
PICTURE WINDOW**

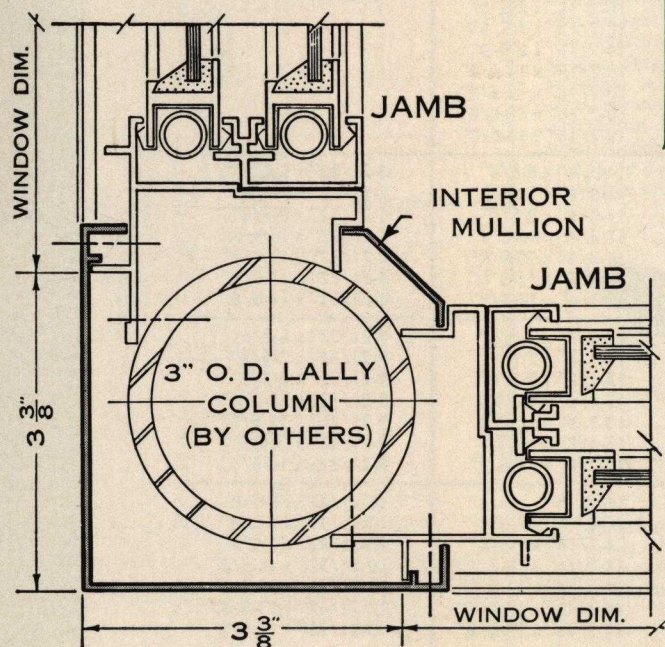
NOTE: THERMO-FILLERS ARE AVAILABLE FOR D. H. PICTURE WINDOW. SEE PAGE 19.

DOUBLE HUNG WINDOW SECTIONS



MULLIONS

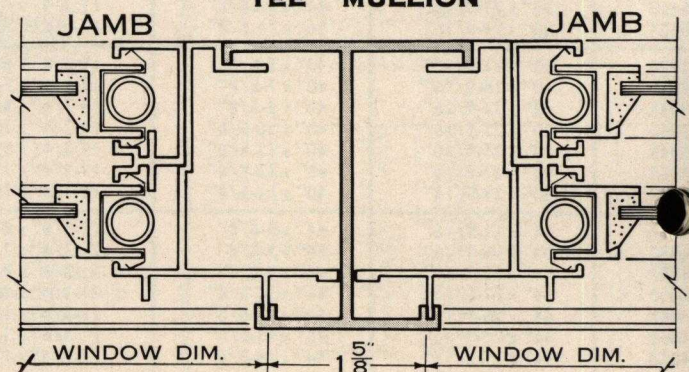
90° CORNER MULLION (ALSO AVAILABLE IN 135°)



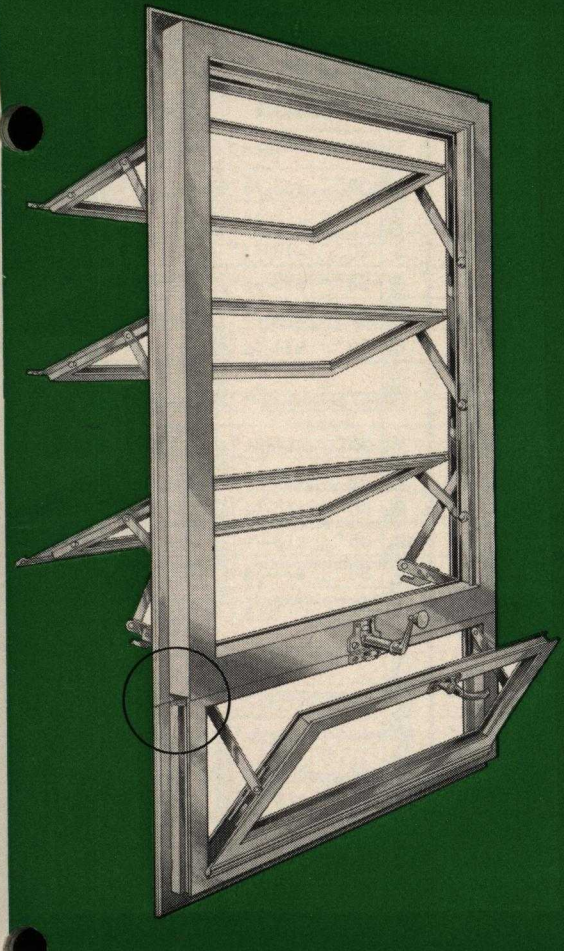
**HALF
SIZE**

NOTE: BUTTER WITH CAULKING COMPOUND BEFORE ASSEMBLY

"TEE" MULLION



AWNING WITH HOPPER



NOTE: AWNING HOPPER WINDOW IS SELF-MULLING

To meet the growing popularity of awning windows in today's residential, commercial and institutional construction, Ualco has engineered and manufactured the Ualco Aluminum Awning Window to meet all desired features—both functional and eye appealing.

Ventilators are operated from center operator through torque bar. Bottom ventilator opens for partial ventilation, while upper ventilators remain closed. (Night ventilation) Ventilators lock in any position.

Sections are narrow to afford maximum ventilation and light—and to make possible the combining of wide banks for effective window walls.

Made of special extruded aluminum, they last as long as the structure itself.

CHECK THESE FEATURES:

1. HEAVY, RIGID FRAME

MADE OF EXTRUDED LIFE-TIME ALUMINUM.

2. INTEGRAL FIN

COMPLETELY SURROUNDS WINDOWS. TAKES BRICK FIN AND FIN TRIM.

3. JIFFY QUICK SILL CLIPS

SLIDE IN CHANNEL FROM EACH SIDE. LOCATE AS MANY AS WANTED WHERE WANTED.

4. GIVES MAXIMUM VENTILATION

VENTS OPEN TO 90 DEGREES.

5. CLOSE WEATHER-TIGHT

COMPLETELY WEATHER-STRIPPED WITH KOROSEAL.

6. EASY TO OPERATE

CENTER OPERATION HAS FINGER-TOUCH CONTROL. TORQUE BAR, NYLON BUSHING.

7. NIGHT VENTILATION

BOTTOM VENTILATOR OPENS FOR NIGHT VENTILATION, WHILE UPPER VENTILATORS REMAIN LOCKED AND CLOSED.

8. AUTOMATICALLY LOCKING VENTILATORS

EVERY VENTILATOR AUTOMATICALLY LOCKS—NO EXTERNAL LOCKING ATTACHMENTS.

9. EASY TO CLEAN

TOP VENTILATOR LOWERS ABOUT 4 INCHES TO PERMIT EASY CLEANING FROM THE INSIDE.

10. FLUSH SCREENS

RIGID FRAME: FITS FLUSH WITH WINDOW.

SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: UALCO Lifetime Aluminum Awning Windows shall be fabricated of specially designed extruded aluminum sections, alloy 6063-T5, having an ultimate tensile strength of 22,000 P.S.I. All members shall have a minimum thickness of 0.062", with this thickness being increased to 0.094" and 0.125" at outside weathering surfaces and at sections requiring greater rigidity.

Frame sections shall have a depth of 2"; ventilator, head, and sill sections a minimum depth of 1 1/4"; and ventilator jamb sections shall have a minimum depth of 1"

CONSTRUCTION: Frame sections shall be mortised, tenoned, and securely swedged in at least three places at each corner. Ventilator sections shall be assembled by mortising, tenoning and securely swedging at each corner.

VENTILATORS: When ventilators are in the closed position, there shall be two weathering contacts around the entire perimeter of the ventilators, one of which shall be weatherstripped with bulb type vinyl weatherstripping. All ventilators shall open thru a minimum arc of 85° with the head section of the top ventilator lowering approximately 4" to permit cleaning from inside. The bottom ventilator shall open ahead of the upper ventilators for partial ventilation at night or in inclement weather.

All ventilators shall be automatically locked at each jamb when in the closed position.

FINISH: Standard finish shall be mill finish, with all surface blemishes removed in order to render a uniform and pleasing appearance.

MULLIONS: Mullions shall be UALCO standard types and sizes.

ACCESSORIES: UALCO Lifetime Aluminum Awning Windows shall have frame members adapted to receive standard UALCO Anchor Clips, Brick Mould, Fin Trim, Sill Dust Covers, and other standard UALCO accessories. The sill section of the window frame shall have an integrally extruded channel to receive the special Awning Sill Clip.

HARDWARE AND OPERATING MECHANISM: Standard operating hardware for UALCO Lifetime Aluminum Awning Windows shall consist of a Rotary Crank operator mounted at the center of the sill. Options of standard hand cranks or pole ring cranks shall be available for either horizontal mounting, 45° up mounting, or 45° down mounting. Pillow blocks shall be used on the crank shaft if the shaft length requires them.

Two options for push bar operation shall be available—one with the push bar attached to the linkage thru slots in the jambs in the window, and one with push bar mounted on the bottom ventilator of the window.

Windows with "thru the jamb" push bar may be screened; windows with push bar mounted on the ventilator are not to be screened.

All operating mechanism shall be designed so as to withstand any loads imposed by

normal window operation. Power from the crank mechanism shall be transmitted to the linkage by an aluminum torque bar supported by at least 4 pillow blocks having Oilite Bushings. Linkage mechanism in the jamb sections shall operate on nylon rollers, and linkage components shall consist of die cast or extruded aluminum, properly designed for perfect operation.

SCREENS: Screens shall be fabricated of rolled aluminum sections wired with 18/14 mesh aluminum wire, held in place with removable aluminum spline. Screens shall recess into an integral screen stop on the inside face of the window.

STORM SASH: Storm Sash shall be fabricated of extruded aluminum sections, vinyl weatherstripped and factory glazed with DSB glass. Storm Sash shall be interchangeable with screens.

ERECTION: (Under separate contract) Windows shall be erected in prepared openings according to Manufacturers installation instructions and drawings. Windows shall be set plumb, level, and square. Operating parts shall be protected from any foreign matter.

For installation in masonry walls, fins, anchors, and parts of the window contacting masonry shall be given one coat of bituminous asphalt paint at points of contact with the masonry wall.

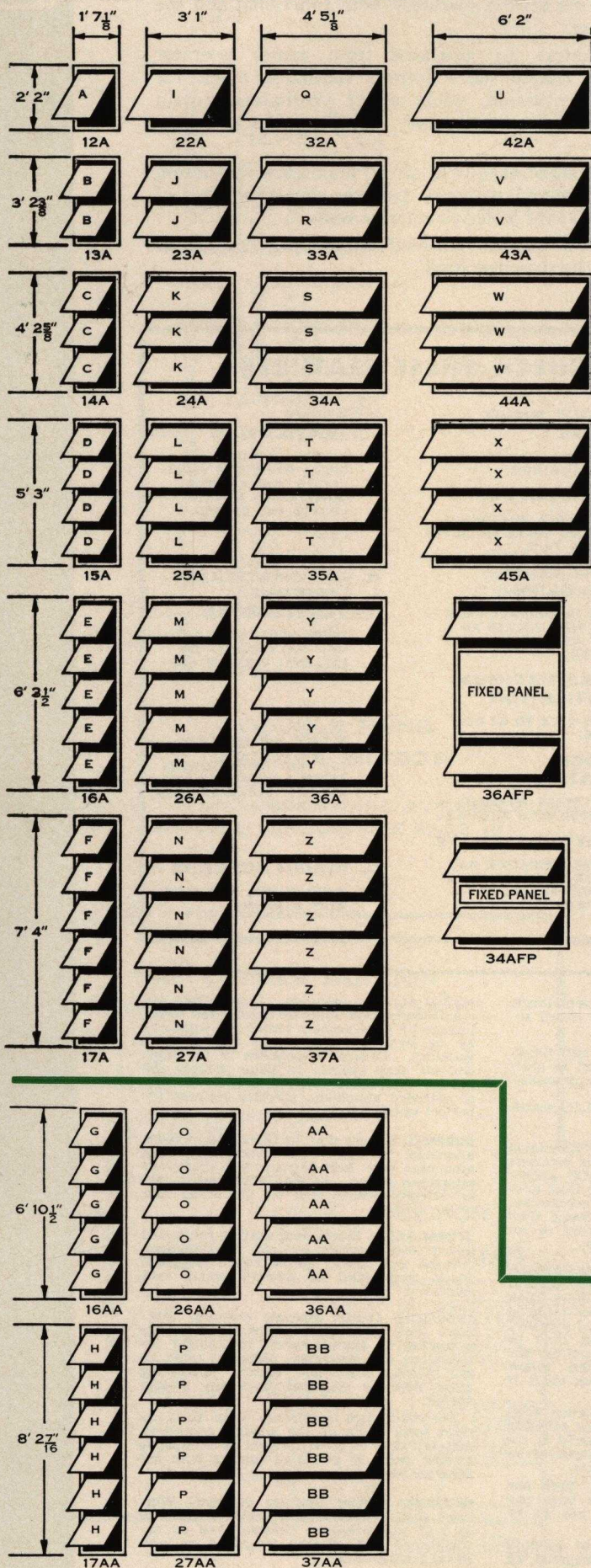
GLAZING: (Under separate contract) Windows shall be glazed with standard glass up to 1/4" in thickness. Glazing shall be accomplished with glazing compound or with metal glazing bead.

Ualco

aluminum awning windows

UALCO ALUMINUM AWNING WINDOWS

STANDARD SIZES



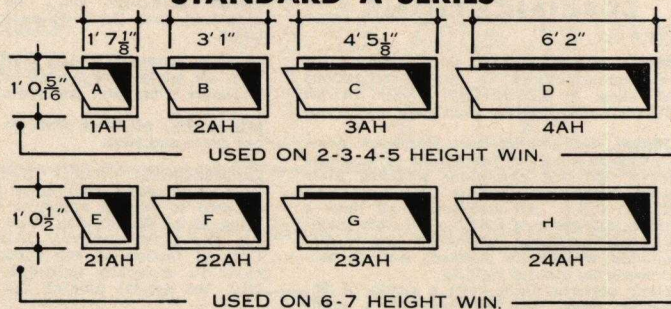
AWNING WINDOW GLASS SIZES

STANDARD		AM MODULAR		AMM MODULAR	
WIDTH	HEIGHT	WIDTH	HEIGHT	WIDTH	HEIGHT
A	15-1/8" x 19-3/4"	1	20" x 17-3/4"	21	17" x 10-3/4"
B	15-1/8" x 15-3/8"	2	20" x 16-3/8"	22	17" x 12-11/16"
C	15-1/8" x 14-1/4"	3	20" x 13-3/8"	23	17" x 13-11/16"
D	15-1/8" x 13-3/8"	4	20" x 13-7/8"	24	17" x 14-1/8"
E	15-1/8" x 13-1/8"	5	20" x 14-5/8"	25	17" x 14-3/8"
F	15-1/8" x 13"	6	20" x 14-3/4"	26	17" x 14-1/2"
G	15-1/8" x 14-5/8"				
H	15-1/8" x 14-3/4"				
I	33" x 19-3/4"	7	36" x 17-3/4"	27	37" x 10-3/4"
J	33" x 15-3/8"	8	36" x 16-3/8"	28	37" x 12-11/16"
K	33" x 14-1/4"	9	36" x 13-3/8"	29	37" x 13-11/16"
L	33" x 13-3/8"	10	36" x 13-7/8"	30	37" x 14-1/8"
M	33" x 13-1/8"	11	36" x 14-5/8"	31	37" x 14-3/8"
N	33" x 13"	12	36" x 14-3/4"	32	37" x 14-1/2"
O	33" x 14-5/8"				
P	33" x 14-3/4"				
Q	49-1/8" x 19-3/4"	13	44" x 17-3/4"	33	45" x 10-3/4"
R	49-1/8" x 15-3/8"	14	44" x 16-3/8"	34	45" x 12-11/16"
S	49-1/8" x 14-1/4"	15	44" x 13-3/8"	35	45" x 13-11/16"
T	49-1/8" x 13-3/8"	16	44" x 13-7/8"	36	45" x 14-1/8"
U	70" x 19-3/4"	17	60" x 17-3/4"	37	57" x 10-3/4"
V	70" x 15-3/8"	18	60" x 16-3/8"	38	57" x 12-11/16"
W	70" x 14-1/4"	19	60" x 13-3/8"	39	57" x 13-11/16"
X	70" x 13-3/8"	20	60" x 13-7/8"	40	57" x 14-1/8"
Y	49-1/8" x 13-1/8"	41	44" x 14-5/8"	43	45" x 14-3/8"
Z	49-1/8" x 13"	42	44" x 14-3/4"	44	45" x 14-1/2"
AA	49-1/8" x 14-5/8"				
BB	49-1/8" x 14-3/4"				

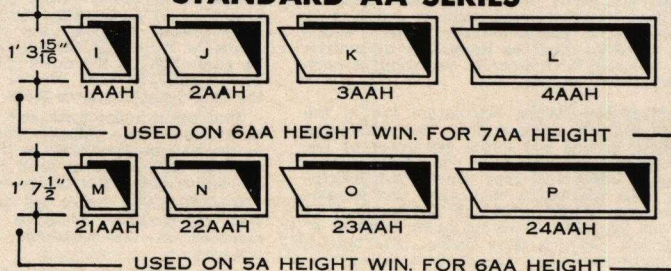
NOTE: ANY OPERATING VENT ON ANY WINDOW MAY BE FIXED STATIONARY. (EXCEPT BOTTOM VENT)

AWNING HOPPER WINDOW . . . SELF MULLING

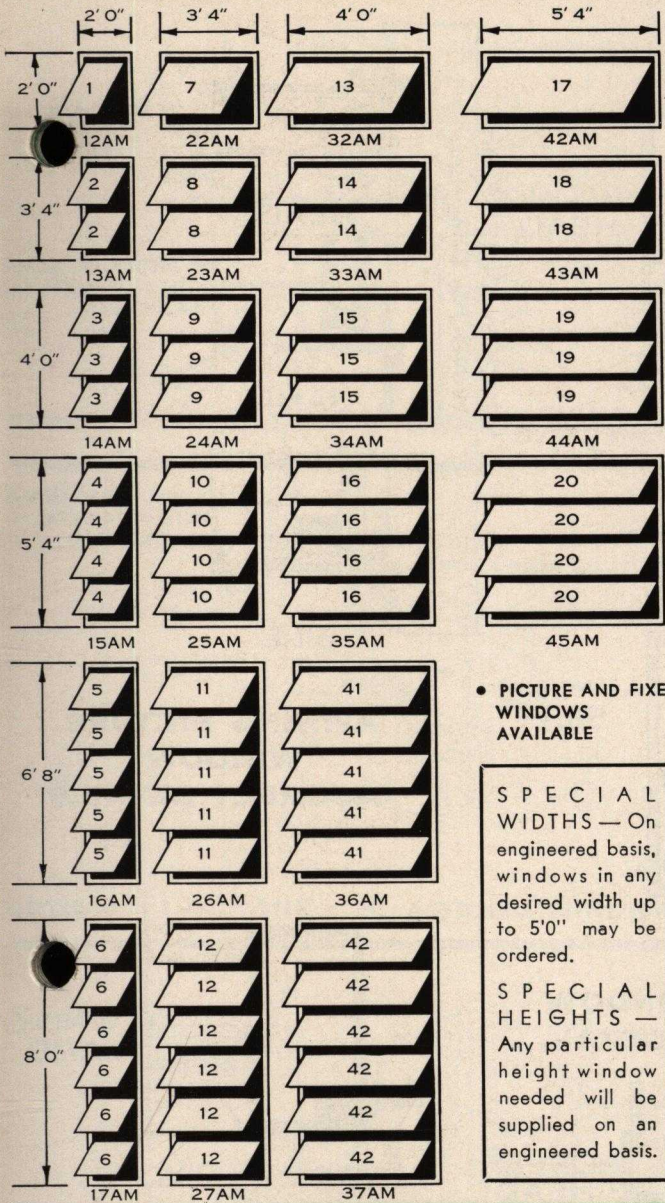
STANDARD A SERIES



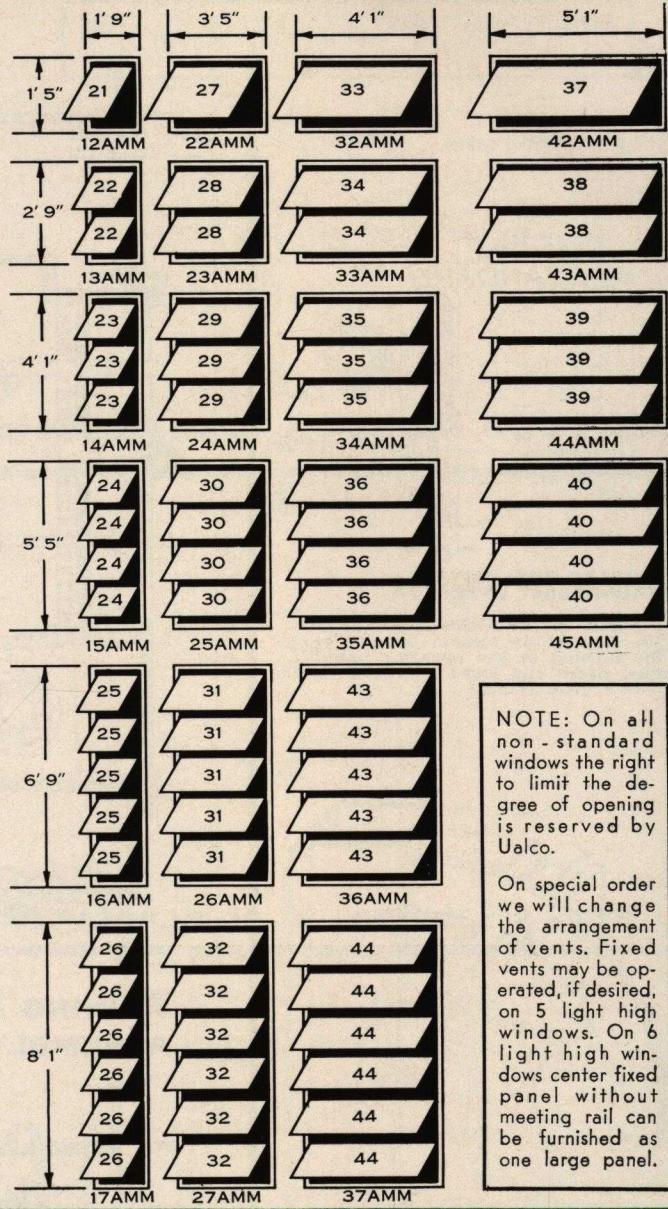
STANDARD AA SERIES



MODULAR SIZES (Series AM)

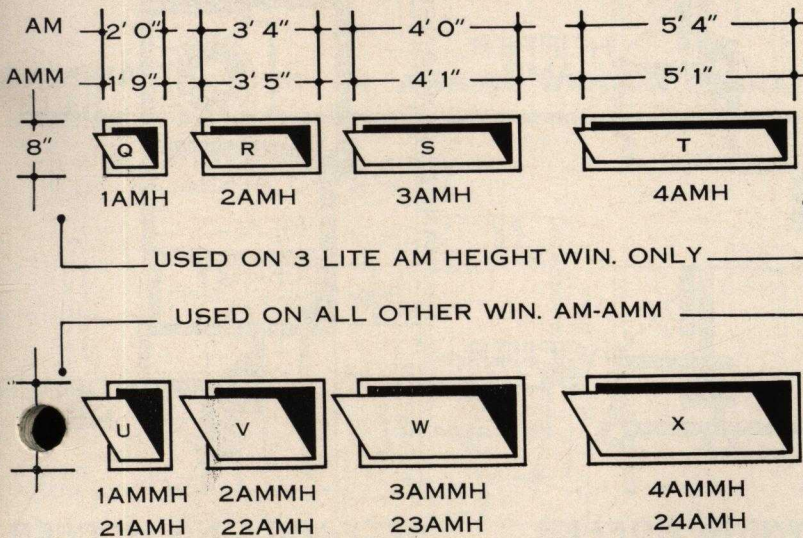


MODULAR SIZES (Series AMM)



AWNING HOPPER WINDOW . . . SELF MULLING

MODULAR AM & AMM SERIES



HOPPER GLASS SIZES

STANDARD A & AA

A	17-1/4"x10-3/16"	I	17-1/4"x14-3/16"
B	35-1/8"x10-3/16"	J	35-1/8"x14-3/16"
C	51-1/4"x10-3/16"	K	51-1/4"x14-3/16"
D	72-1/8"x10-3/16"	L	72-1/8"x14-3/16"
E	17-1/4"x10-3/4"	M	17-1/4"x17-3/4"
F	35-1/8"x10-3/4"	N	35-1/8"x17-3/4"
G	51-1/4"x10-3/4"	O	51-1/4"x17-3/4"
H	72-1/8"x10-3/4"	P	72-1/8"x17-3/4"

AM SERIES

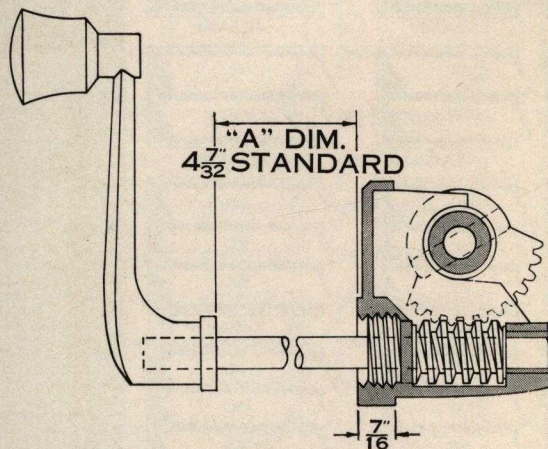
Q	22-1/8"x 6-1/4"	U	22-1/8"x14-1/4"
R	38-1/8"x 6-1/4"	V	38-1/8"x14-1/4"
S	46-1/8"x 6-1/4"	W	46-1/8"x14-1/4"
T	62-1/8"x 6-1/4"	X	62-1/8"x14-1/4"

AMM SERIES

Q ₁	19-1/8"x 6-1/4"	U ₁	19-1/8"x14-1/4"
R ₁	39-1/8"x 6-1/4"	V ₁	39-1/8"x14-1/4"
S ₁	47-1/8"x 6-1/4"	W ₁	47-1/8"x14-1/4"
T ₁	59-1/8"x 6-1/4"	X ₁	59-1/8"x14-1/4"

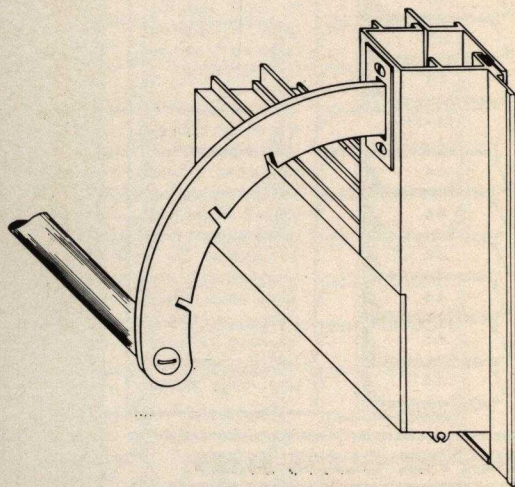
UALCO ALUMINUM AWNING WINDOWS

HARDWARE



**UALCO EXCLUSIVE
"STRIP-PROOF" OPERATOR**

Shown in detail is the Ualco "strip-proof" operator with heavy-duty torsion bar. In one operation, the turning of the operator handle, unlocks, opens, closes and locks all vents. Can be furnished in special lengths.



UALCO STANDARD PUSH-BAR OPERATOR

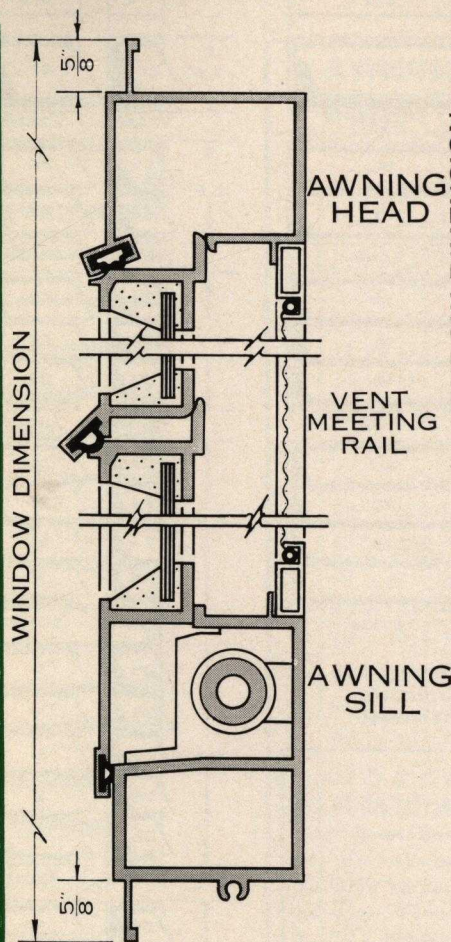
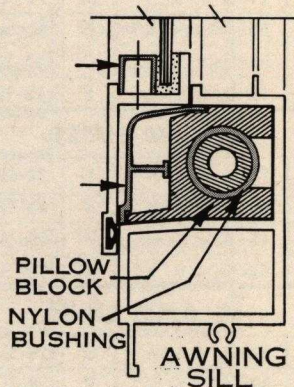
Shown in detail above is Ualco's standard through-the-jamb Push-Bar Operator. Operates vents in same ratio as crank operator. Has 3 open positions. Bar is lifted up and pushed out to desired position.

UNIVERSAL GLAZING BEAD (VENTS)

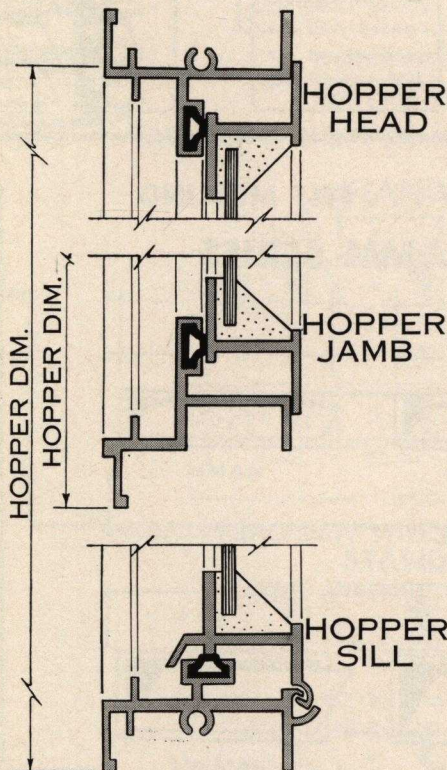
Cutaway shows application of metal glazing which is available for use on ventilators. On request only.

CONTINUOUS TORQUE-BAR COVER

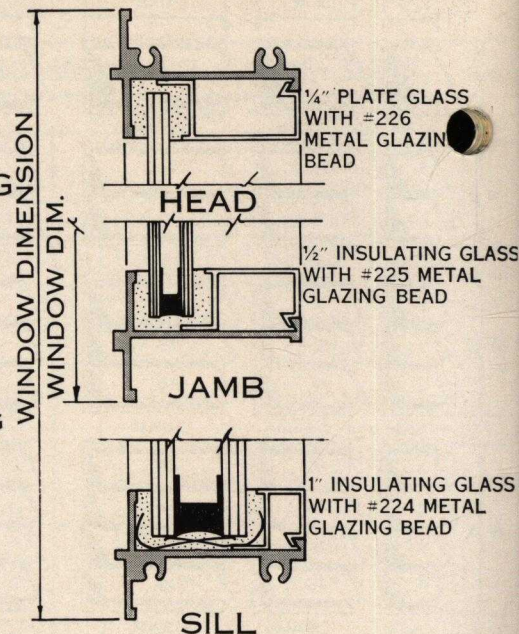
This extruded option member serves as a dust cover to keep torque-bar free from foreign matter.



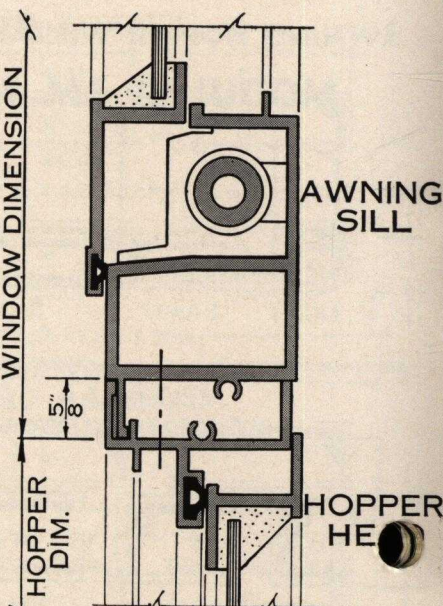
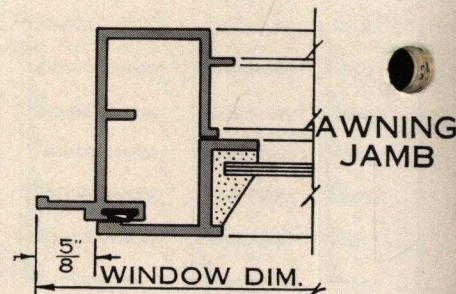
**AWNING WINDOW
ASSEMBLY DETAIL**



**AWNING HOPPER
ASSEMBLY DETAILS**

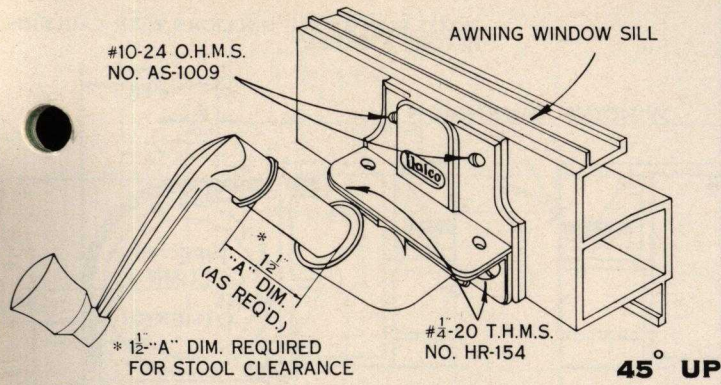


**AWNING PICTURE
WINDOW
ASSEMBLY DETAILS**

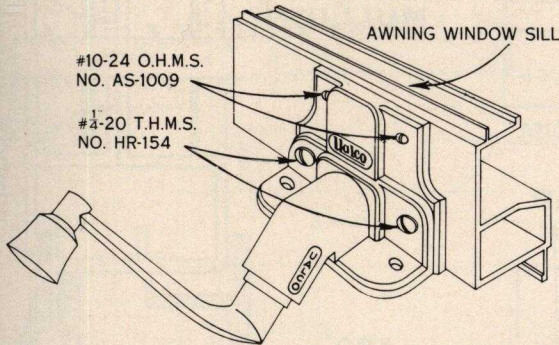
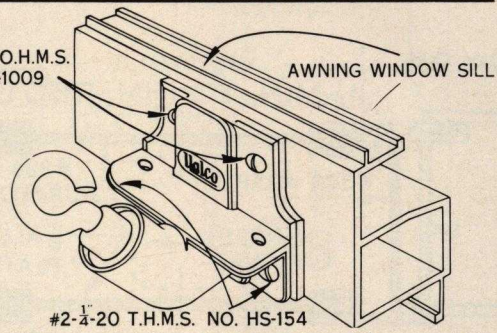


**SELF-MULLING HOPPER
ASSEMBLY DETAILS**

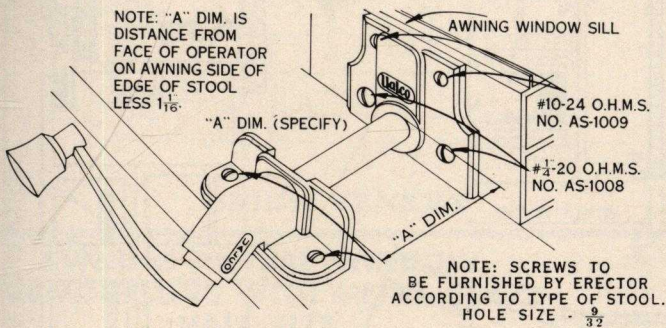
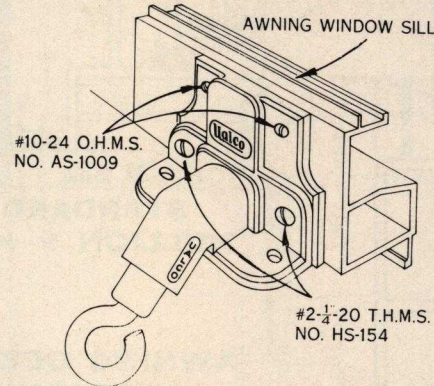
NOTE: CRANK TYPE POLE OPERATORS AVAILABLE UPON REQUEST FOR OPTION #2. PLEASE STATE QUANTITY AND LENGTH.



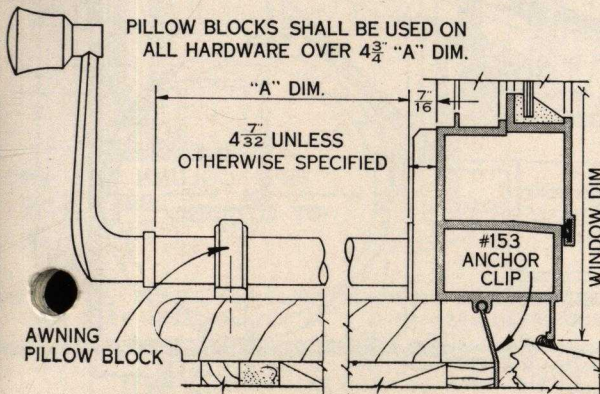
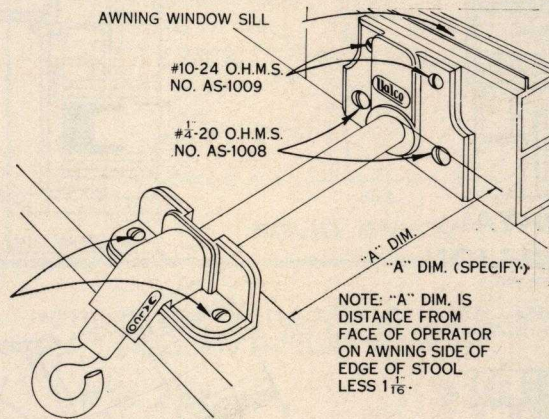
OPTION #1 - CRANK ◀ AWNING WINDOW OPERATOR UN-30 ▶ OPTION #2 - EYE



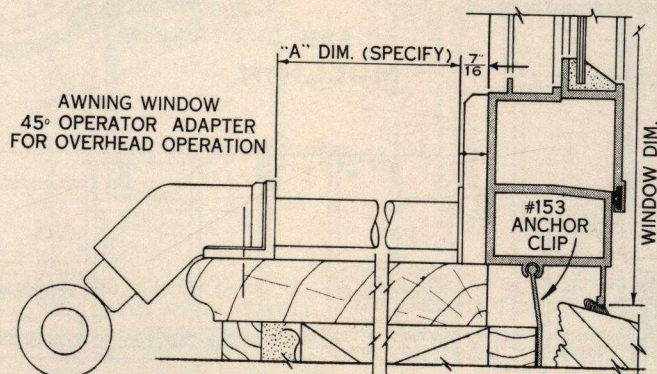
OPTION #1 - CRANK ◀ AWNING WINDOW OPERATOR UN-30 ▶ OPTION #2 - EYE



OPTION #1 - CRANK ◀ AWNING WINDOW OPERATOR UN-31 ▶ OPTION #2 - EYE



STANDARD AWNING OPERATOR

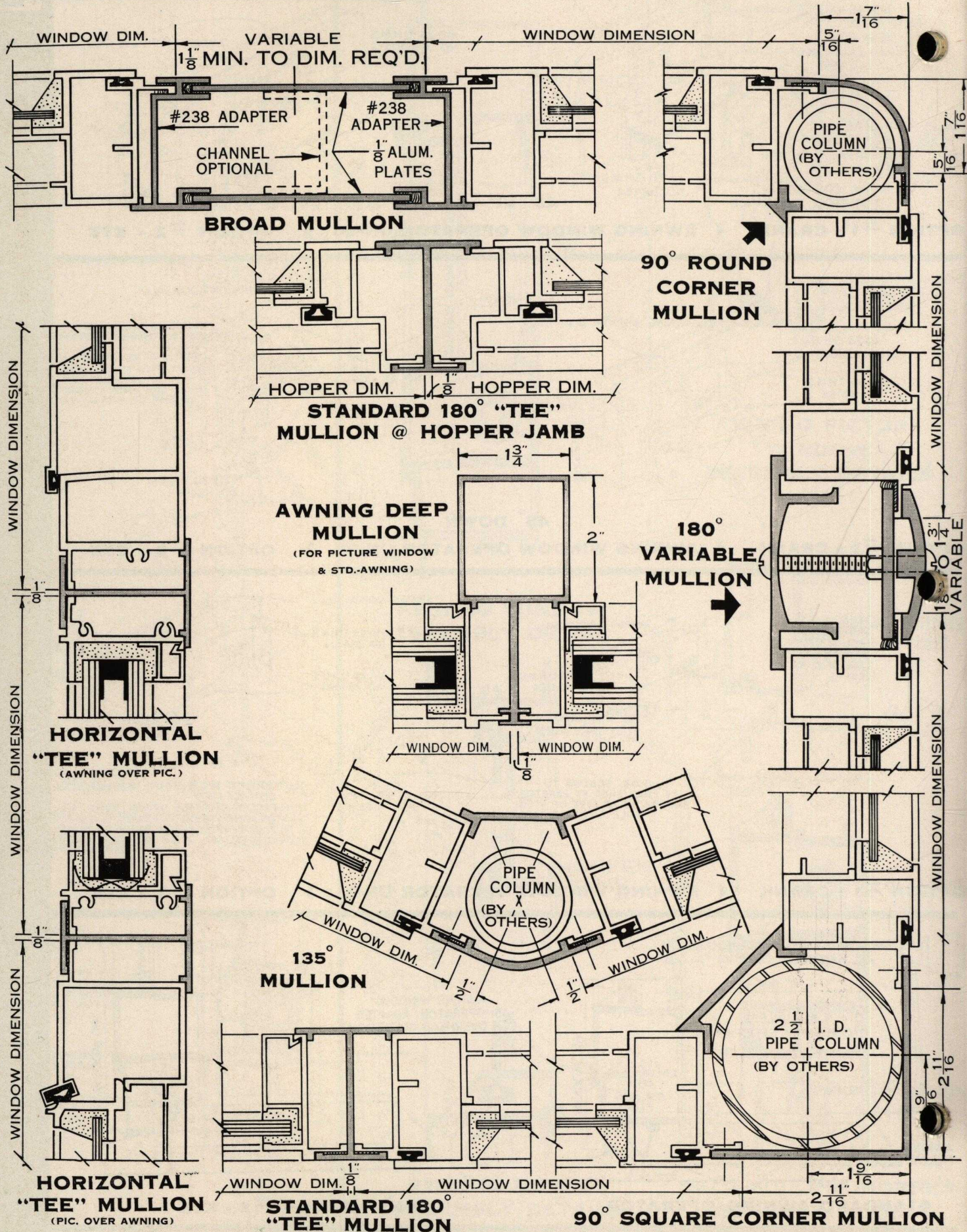


UN-31 OPTION #2 - EYE

UALCO ALUMINUM AWNING WINDOWS

MULLION ASSEMBLIES—(Half Size)

NOTE: BUTTER ALL MULLIONS WITH CAULKING BEFORE ASSEMBLY.

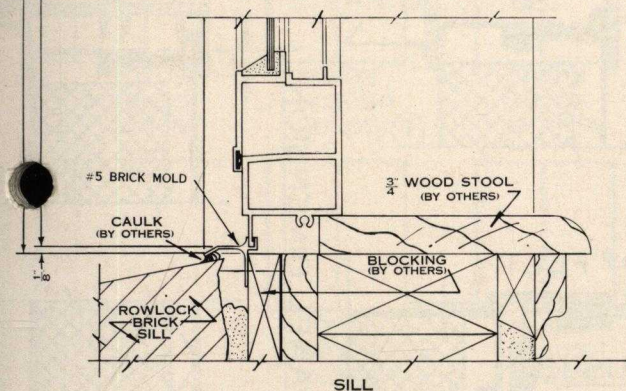
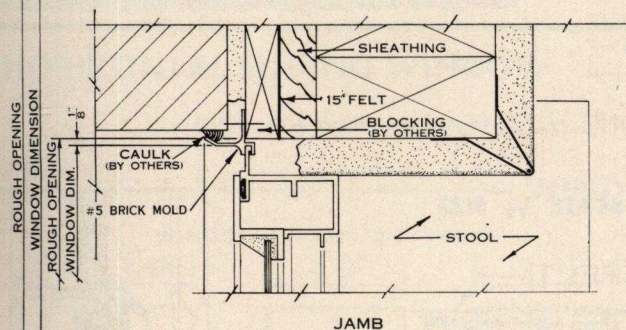
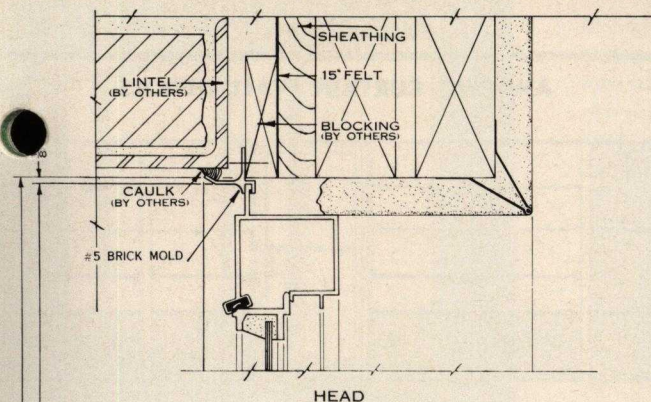


NOTE: ON ALL FIN TRIM, BRICK MOLD, AND MULLION INSTALLATIONS — BUTTER WITH CAULKING COMPOUND BEFORE ASSEMBLY

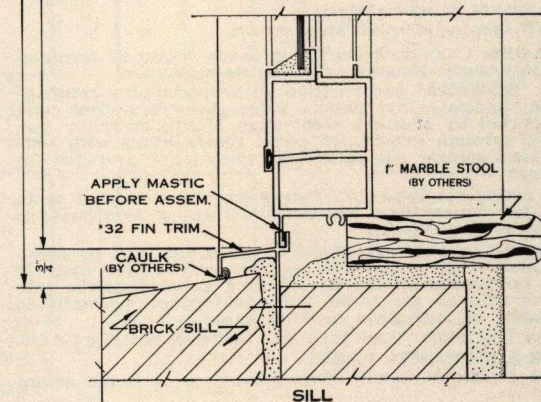
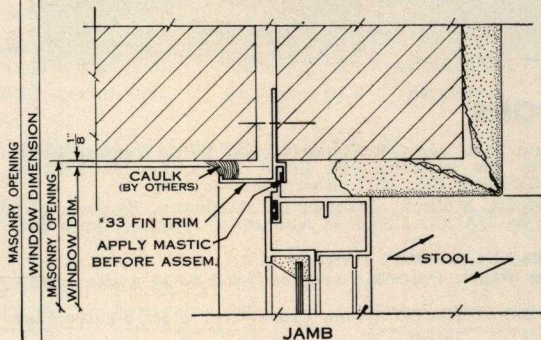
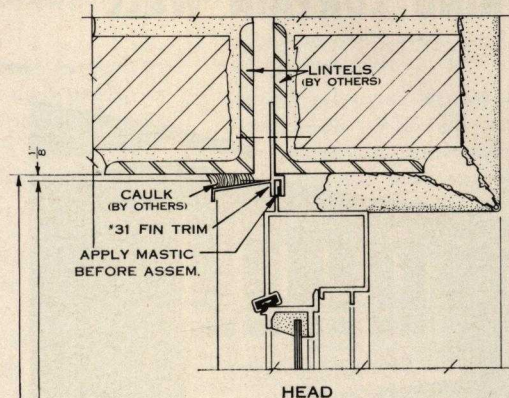
Ualco

aluminum awning windows

INSTALLATION DETAILS



BRICK VENEER



SOLID BRICK

**AWNING PICTURE WINDOW
THERMO-FILLERS WITH METAL GLAZE
HALF SIZE**

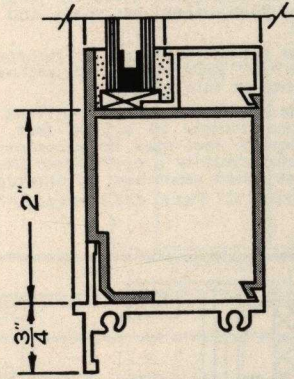
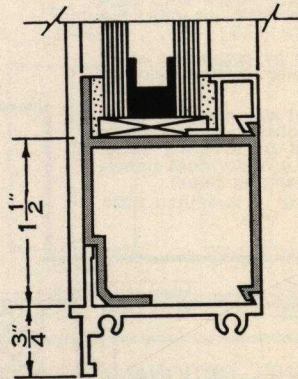
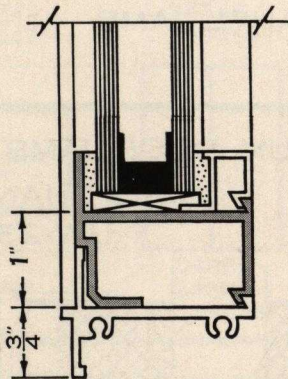
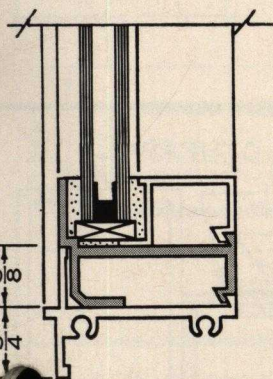
NOTE: THERMO-FILLERS SHOWN ARE ALSO ADAPTABLE TO UALCO DOUBLE HUNG & JALOUSIE PICTURE WINDOWS.

#163

#164

#279

#165



(SHOWING 1/2" INSULATING GLASS AND #225 METAL GLAZE.)

(SHOWING 1" INSULATING GLASS AND #224 METAL GLAZE.)

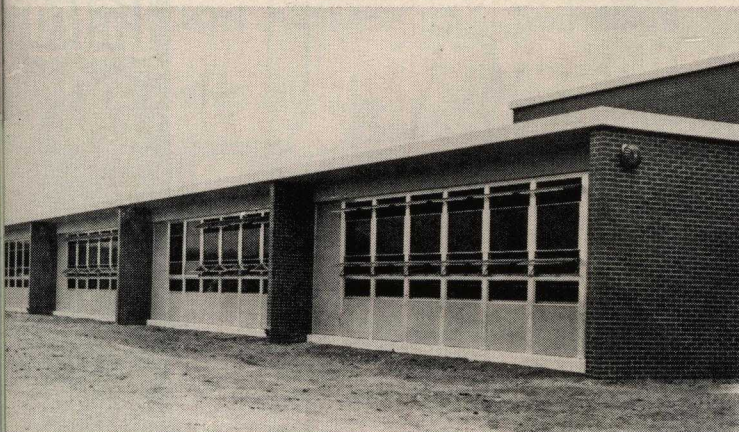
(SHOWING 1" INSULATING GLASS AND #224 METAL GLAZE.)

(SHOWING 1/2" INSULATING GLASS AND #225 METAL GLAZE.)

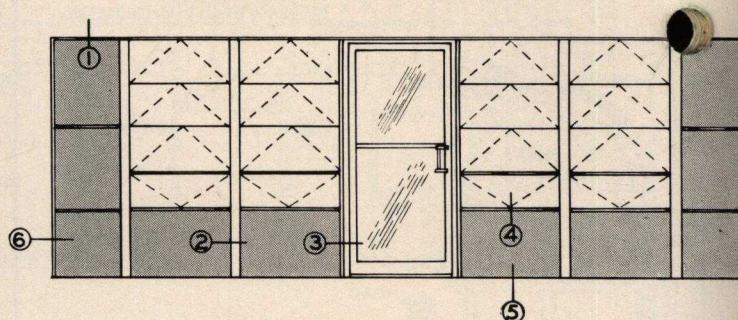
NOTE: TO OBTAIN O.A. WINDOW DIMENSIONS WHEN INSULATING GLASS SIZES ARE KNOWN:
• ADD 2" TO GLASS WIDTH=PICTURE WINDOW WIDTH.
• ADD 2" TO GLASS HEIGHT=PICTURE WINDOW HEIGHT.

NOTE: TO OBTAIN GLASS SIZE FOR AWNING PICTURE WINDOW:
• DEDUCT 2" FROM O.A. WINDOW WIDTH=GLASS WIDTH.
• DEDUCT 2" FROM O.A. WINDOW HEIGHT=GLASS HEIGHT.

UALCO AWNING CURTAIN WALL



AWNING CURTAIN WALL DETAILS



SPECIFICATIONS

GENERAL: Curtain Wall component parts shall be as manufactured and distributed to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: Windows, Mullion, Accessories, Hardware, Screens, and Storm Sash shall be UALCO Lifetime Aluminum Awning types and sizes.

TYPE "A" PORCELAIN ENAMEL PANEL:

MATERIAL: Outer Panel: Porcelain enamel fused to 16 gauge enameling steel.

Inner Panel: Baked enamel prime finish over electro-galvanized and primed steel.

Insulating Core: Moisture-resistant spun fiber glass, 6 lb. density.

Gasket: Vinyl gasket of special design.

Fastenings: Self-tapping stainless steel screws.

FINISH AND COLORS: Color as specified in shade required, formula-compounded for uniformity. Smooth or matte finish.

CONSTRUCTION: "Sandwich" construction with overlapping returned edges separated by special vinyl gasket. Fiber-glass insulating core, mechanically supported by stainless steel clips. Entire assembly mechanically fastened through overlapped panel return-edges with self-tapping stainless steel screws. Air space and weep holes provided for moisture control.

WEIGHT: Weight rating for Type "A" Panels may be computed at an average of 6 lbs. per square foot. Special materials or modifications may cause variance of this figure.

SIZES: Thickness shall be 1½". Any required panel size may be specified, up to 12 square feet. Structural requirements larger than 12 square feet may be accommodated by dividing panel surfaces into architecturally proportioned areas—the individual panels normally to be supplied assembled to one-piece backing panel.

"U" RATING: Type "A" panel shall have "U" rating of less than 0.240.

TYPE "C" PORCELAIN ENAMEL PANEL:

MATERIAL: Outer Panel: Porcelain enamel fused to 16 gauge enameling steel.

Inner Panel: Baked enamel prime finish over electro-galvanized and primed steel.

Insulating Core: Moisture-resistant spun fiber glass, 6 lb. density; integrally cast Vitrock backing.

Gasket: Vinyl gasket of special design.

Fastenings: Self-tapping stainless steel screws.

FINISH AND COLORS: Color as specified in shade required, formula-compounded for uniformity. Smooth or matte finish.

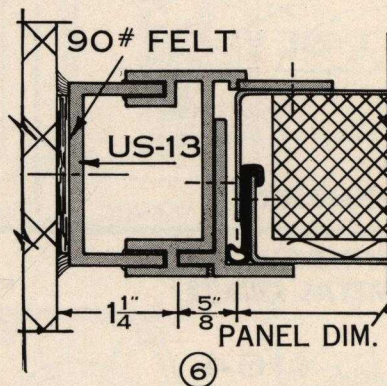
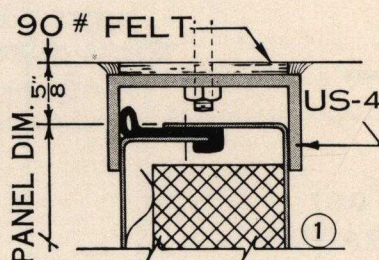
CONSTRUCTION: "Sandwich" construction with overlapping returned edges separated by special vinyl gasket. Fiber-glass insulating core, mechanically supported by stainless steel clips. Entire assembly mechanically fastened through overlapped panel return-edges with self-tapping stainless steel screws. Air space and weep holes provided for moisture control.

WEIGHT: Weight rating for Type "C" Panels may be computed at an average of 8 lbs. per square foot. Special materials or modifications may cause variance of this figure.

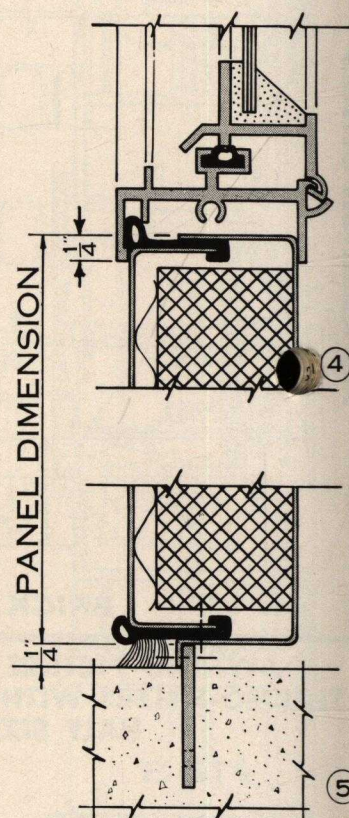
SIZES: Thickness shall be 1½". Any required panel size may be specified, up to approximately 20 square feet. Structural requirements larger than 20 square feet may be accommodated by dividing panel surfaces into architecturally proportioned areas—the individual panels normally to be supplied assembled to one-piece backing panel.

"U" RATING: Type "C" Panel shall have "U" rating of less than 0.230.

SCALE ½ SIZE

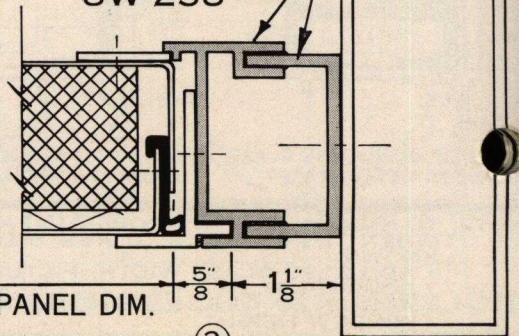


PANEL JAMB

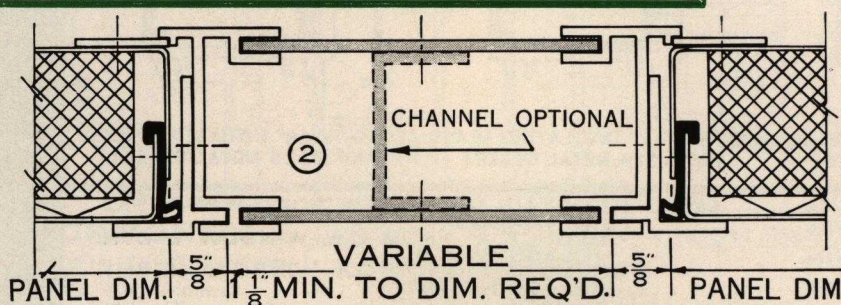


ALUM. DOOR JAMB (BY OTHERS)

US-13 CHANNEL
UW-238



③



AWNING BROAD MULLION

CODE EXPLANATION

Examples:

2020S—Double Panel Series. Two operating panels. Both panels are removable. Both panels are the same size. Requires full screen.

2020S-1—Fixed Side Panel Series. Only right hand panel operates (from inside). Left hand panel is fixed. Both panels are removable. Both panels are the same size. Requires half screens.

2020SP—Picture Window Series. Picture windows can be glazed with $\frac{1}{8}$ ", $\frac{1}{4}$ " glass and also $\frac{1}{2}$ " insulating glass. Glazing bead is included on all Slider Picture Windows.

NOTE: Picture windows are available in standard and special sizes.

Picture windows with fixed muntins are available.

4820SCF—Center Fixed Panel Series. Side panels are operable. Side panels are removable. Side panels are the same size. Center panel is non-operable but is removable. Center panel is approximately the same width as the combined width of the vents. Minimum overall width for any S.C.F. (Standard or Special) is 4'-8". Requires two half screens. **NOTE:** This type arrangement is available in 4'-8", 5'-4", 6'-0" and 7'-0" widths and standard heights. Special widths for S.C.F. are available from 4'-8" minimum to 7'-0" maximum.

HORIZONTAL SLIDING WINDOW

NOTE: The maximum height for any sliding window (special or standard will be 3' 7-5/8"

WINDOW SIZES

WINDOW DIMENSION—WIDTH						
	2'-0"	3'-0"	3'-4"	3'-8"	4'-0"	6'-0"
WINDOW DIMENSION—HEIGHT	1'-11 5/8"					AND AT 8" INTERVALS UP TO
	2020S 2020S-1 2020SP	3020S 3020S-1 3020SP	3420S 3420S-1 3420SP	3820S 3820S-1 3820SP	4020S 4020S-1 4020SP	6020SP 6020SCF
	2'-11 5/8"					AND AT 8" INTERVALS UP TO
		3030S 3030S-1 3030SP	3430S 3430S-1 3430SP	3830S 3830S-1 3830SP	4038S 4038S-1 4038SP	6030SP 6030SCF
	3'-3 5/8"					AND AT 8" INTERVALS UP TO
		3034S 3034S-1 3034SP	3434S 3434S-1 3434SP	3834S 3834S-1 3834SP	4034S 4034S-1 4034SP	6034SP 6034SCF
3'-7 5/8"	NOTE: SEE CATALOG NUMBER CODE EXPLANATION.					AND AT 8" INTERVALS UP TO
			3438S 3438S-1 3438SP	3838S 3838S-1 3838SP	4038S 4038S-1 4038SP	6038SP 6038SCF

- HORIZONTAL SLIDING WINDOWS ARE AVAILABLE WITH A $\frac{5}{16}$ " EXTERIOR FLANGE IN STANDARD AND SPECIAL SIZES WITH THE SAME COMBINATIONS AS LISTED ABOVE AND ALSO AS DESCRIBED UNDER CODE EXPLANATION ABOVE.
- TO OBTAIN THE WINDOW DIMENSION FOR A STANDARD HORIZONTAL SLIDING WINDOW WITH A $\frac{5}{16}$ " EXTERIOR FLANGE: WIDTH—SUBTRACT $\frac{1}{2}$ " FROM THE STD. WINDOW WIDTH. HEIGHT—SUBTRACT $\frac{3}{4}$ " FROM STD. WINDOW HEIGHT.

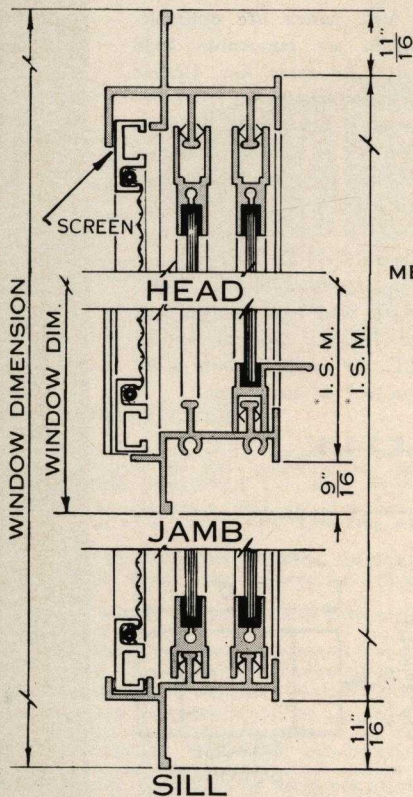
Ualco

aluminum horizontal sliding windows

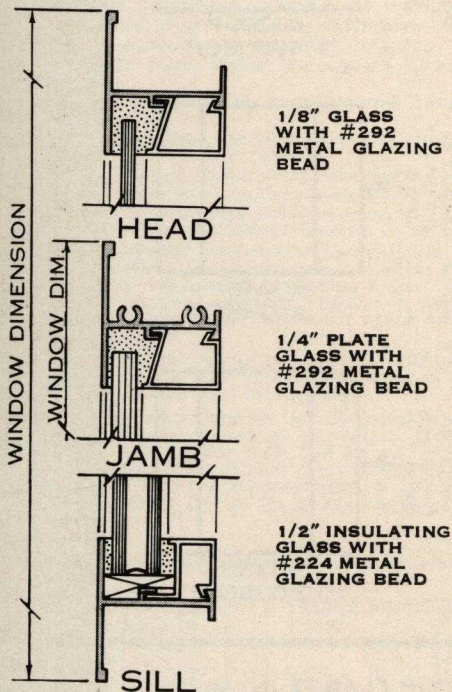
UALCO ALUMINUM HORIZONTAL SLIDING WINDOWS

ASSEMBLY DETAILS (HALF SIZE)

NOTE: SLIDING WINDOWS ARE ALSO AVAILABLE WITH A 5/16" FLANGE UPON REQUEST. ONLY THE FIN DIMENSION WILL CHANGE. THE I.S.M. WILL REMAIN CONSTANT.

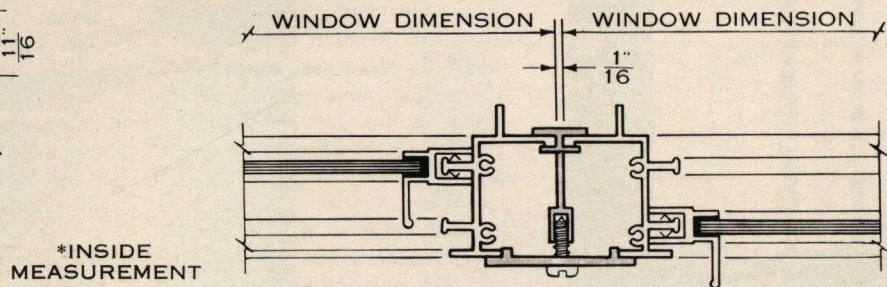


HORIZONTAL SLIDING WINDOW ASSEMBLY

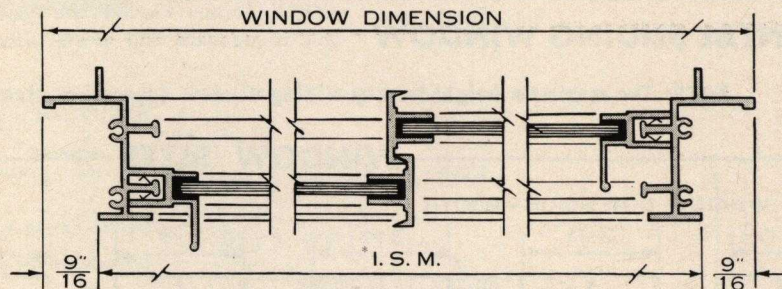


HORIZONTAL SLIDING PICTURE WINDOW

NOTE: SPECIFY TYPE GLASS AND GLAZING BEAD REQUIRED FOR PICTURE WINDOWS.



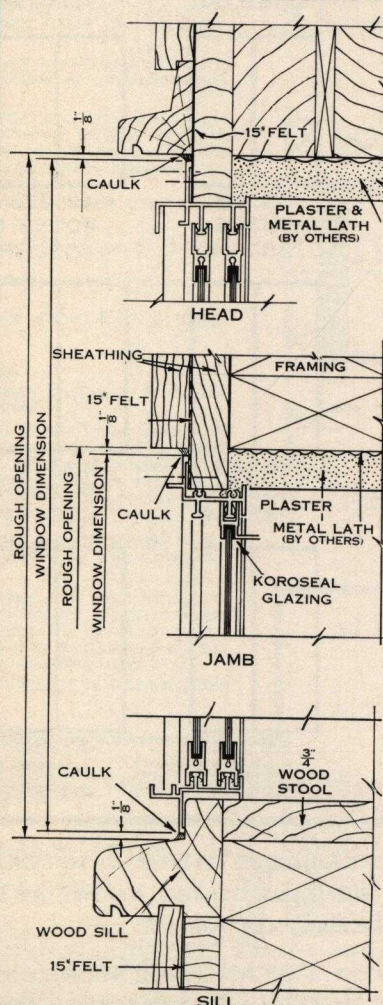
HORIZONTAL SLIDING STANDARD MULLION



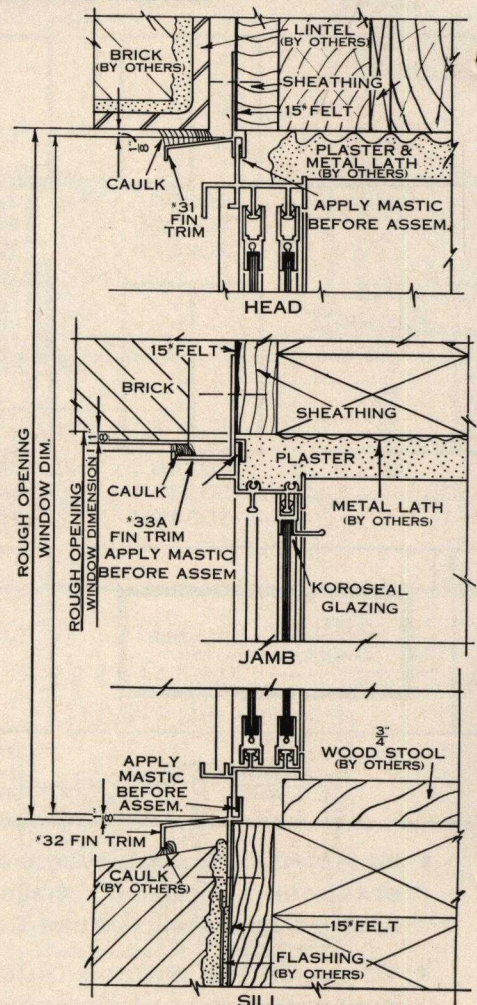
JAMB & MEETING RAIL ASSEMBLY

installation details

NOTE: ON ALL FIN TRIM, BRICK MOLD, AND MULLION INSTALLATIONS—BUTTER WITH CAULKING COMPOUND BEFORE ASSEMBLY



FRAME CONSTRUCTION



BRICK VENEER WITH FIN TRIM

STANDARD AND INTEGRAL FIN SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: UALCO Lifetime Aluminum Horizontal Sliding Windows shall be fabricated of specially designed extruded aluminum shapes, 6063-T5 alloy, mill finish, having an ultimate tensile strength of 22,000 P.S.I. Frame and ventilator sections shall have a minimum thickness of 0.062", *except that outside edges of frame flanges shall have a minimum thickness of 0.125".

CONSTRUCTION: Frame sections shall be assembled at the corners with stainless steel screws to insure strength and rigidity.

Frames shall be weatherstripped at head and sill with continuous stainless steel weatherstripping, securely attached to the sash slide tracks. Vents shall, when in the closed and locked position, engage a stainless steel weatherstripping which shall be attached to the frame jamb section.

An aluminum guide track extruded as an integral part of the head section of the frame, and weatherstripped with stainless steel, shall prevent removal of the sash when in the closed and locked position.

Vent sash sections shall be assembled with stainless steel screws at all corners.

Sash sections shall be easily removed from frames for cleaning or re-glazing when in the unlocked position.

HARDWARE: Each movable sash shall be provided with stainless steel lock and keeper designed for positive locking. Pull handles shall be extruded as integral parts of the vent jamb sections.

SCREENS: Screens shall be fabricated of extruded aluminum sections, wired with 18/14 mesh aluminum wire, and splined with removable spline. Screens shall be so designed as to fit into screen channels which shall be integral parts of the window frame head and sill sections. Screens shall be attachable and removable from inside the window, and shall require no screen attachment hardware.

MULLIONS: Mullions shall be UALCO standard types and sizes.

STORM SASH: Storm sash shall be fabricated of extruded aluminum sections, vinyl weatherstripped, and factory glazed with DSB glass. Storm sash shall be interchangeable with screens from inside the window.

†ACCESSORIES: UALCO Lifetime Aluminum Horizontal Sliding windows shall have frame members adapted to receive UALCO Anchor Clips, #5 Brick Mould, Standard Fin Trim, Stucco Fin Trim and Asbestos Siding Fin Trim.

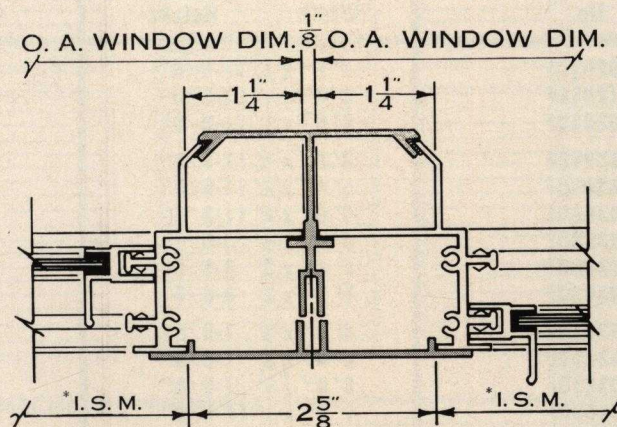
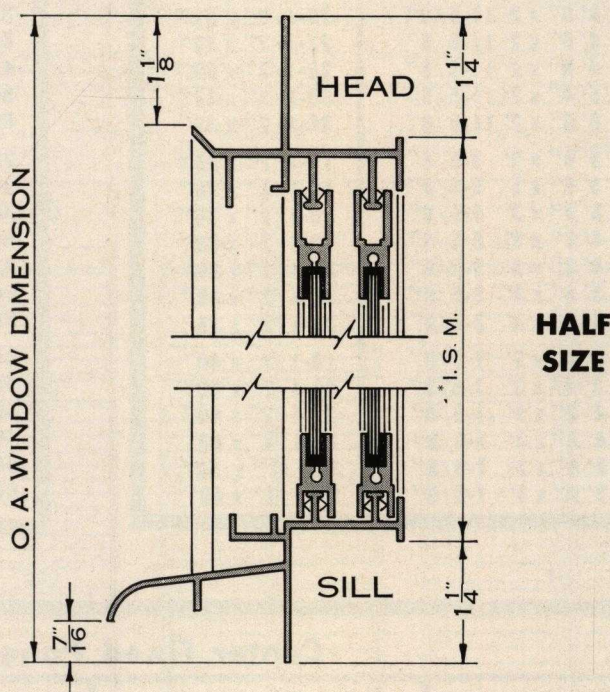
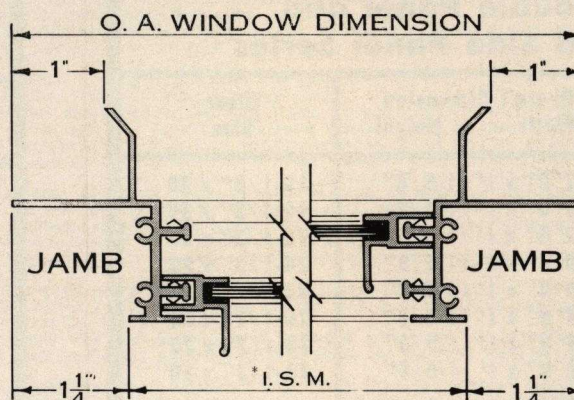
ERECTION: (Under separate contract) Windows shall be erected in prepared openings according to manufacturer's installation instructions and drawings. Windows shall be set plumb, level, and square. Operating parts shall be protected from any foreign matter.

For installation in masonry walls, Fins, anchors, and window surfaces contacting masonry shall be given one coat of asphaltic paint at points of contact with the masonry walls.

GLAZING: Ventilators shall be glazed with vinyl glazing channel and DSB, either at the factory or in the field.

†*Does not apply to integral fin horizontal sliding window.

INTEGRAL FIN HORIZONTAL SLIDING WINDOW



HORIZONTAL SLIDING INTEGRAL FIN MULLION

1. REFER TO STANDARD HORIZONTAL SLIDING WINDOW SIZES AS SHOWN ON PAGE 21.
- *2. THE I.S.M. IS STANDARD ON BOTH REGULAR & INTEGRAL FIN SLIDING WINDOWS IN REFERENCE TO EACH CATALOG NUMBER.

HORIZONTAL SLIDING (Windows and Glass Sizes)

*Special Order

Double Panel and Fixed Side Panel Series

Catalog No.	Overall Dimension Width Height	Glass Size
2020S	2' 0" x 1' 11-5/8"	10-1/2" x 20"
3020S	3' 0" x 1' 11-5/8"	16-1/2" x 20"
3420S	3' 4" x 1' 11-5/8"	18-1/2" x 20"
3820S	3' 8" x 1' 11-5/8"	20-1/2" x 20"
4020S	4' 0" x 1' 11-5/8"	22-1/2" x 20"
4820S	4' 8" x 1' 11-5/8"	26-1/2" x 20"
*5420S	5' 4" x 1' 11-5/8"	30-1/2" x 20"
*6020S	6' 0" x 1' 11-5/8"	34-1/2" x 20"
3030S	3' 0" x 2' 11-5/8"	16-1/2" x 32"
3430S	3' 4" x 2' 11-5/8"	18-1/2" x 32"
3830S	3' 8" x 2' 11-5/8"	20-1/2" x 32"
4030S	4' 0" x 2' 11-5/8"	22-1/2" x 32"
4830S	4' 8" x 2' 11-5/8"	26-1/2" x 32"
*5430S	5' 4" x 2' 11-5/8"	30-1/2" x 32"
*6030S	6' 0" x 2' 11-5/8"	34-1/2" x 32"
3034S	3' 0" x 3' 3-5/8"	16-1/2" x 36"
3434S	3' 4" x 3' 3-5/8"	18-1/2" x 36"
3834S	3' 8" x 3' 3-5/8"	20-1/2" x 36"
4034S	4' 0" x 3' 3-5/8"	22-1/2" x 36"
4834S	4' 8" x 3' 3-5/8"	26-1/2" x 36"
*5434S	5' 4" x 3' 3-5/8"	30-1/2" x 36"
*6034S	6' 0" x 3' 3-5/8"	34-1/2" x 36"
3438S	3' 4" x 3' 7-5/8"	18-1/2" x 40"
3838S	3' 8" x 3' 7-5/8"	20-1/2" x 40"
4038S	4' 0" x 3' 7-5/8"	22-1/2" x 40"
4838S	4' 8" x 3' 7-5/8"	26-1/2" x 40"
*5438S	5' 4" x 3' 7-5/8"	30-1/2" x 40"
*6038S	6' 0" x 3' 7-5/8"	34-1/2" x 40"

Picture Window Series

Catalog No.	Overall Dimension Width Height	Glass Size
2020SP	2' 0" x 1' 11-5/8"	21-3/4" x 21-3/8"
3020SP	3' 0" x 1' 11-5/8"	33-3/4" x 21-3/8"
3420SP	3' 4" x 1' 11-5/8"	37-3/4" x 21-3/8"
3820SP	3' 8" x 1' 11-5/8"	41-3/4" x 21-3/8"
4020SP	4' 0" x 1' 11-5/8"	45-3/4" x 21-3/8"
5420SP	5' 4" x 1' 11-5/8"	61-3/4" x 21-3/8"
6020SP	6' 0" x 1' 11-5/8"	69-3/4" x 21-3/8"
3030SP	3' 0" x 2' 11-5/8"	33-3/4" x 33-3/8"
3430SP	3' 4" x 2' 11-5/8"	37-3/4" x 33-3/8"
3830SP	3' 8" x 2' 11-5/8"	41-3/4" x 33-3/8"
4030SP	4' 0" x 2' 11-5/8"	45-3/4" x 33-3/8"
4830SP	4' 8" x 2' 11-5/8"	53-3/4" x 33-3/8"
5430SP	5' 4" x 2' 11-5/8"	61-3/4" x 33-3/8"
6030SP	6' 0" x 2' 11-5/8"	69-3/4" x 33-3/8"
3034SP	3' 0" x 3' 3-5/8"	33-3/4" x 37-3/8"
3434SP	3' 4" x 3' 3-5/8"	37-3/4" x 37-3/8"
3834SP	3' 8" x 3' 3-5/8"	41-3/4" x 37-3/8"
4034SP	4' 0" x 3' 3-5/8"	45-3/4" x 37-3/8"
4834SP	4' 8" x 3' 3-5/8"	53-3/4" x 37-3/8"
5434SP	5' 4" x 3' 3-5/8"	61-3/4" x 37-3/8"
6034SP	6' 0" x 3' 3-5/8"	69-3/4" x 37-3/8"
3438SP	3' 4" x 3' 7-5/8"	37-3/4" x 41-3/8"
3838SP	3' 8" x 3' 7-5/8"	41-3/4" x 41-3/8"
4038SP	4' 0" x 3' 7-5/8"	45-3/4" x 41-3/8"
4838SP	4' 8" x 3' 7-5/8"	53-3/4" x 41-3/8"
5438SP	5' 4" x 3' 7-5/8"	61-3/4" x 41-3/8"
6038SP	6' 0" x 3' 7-5/8"	69-3/4" x 41-3/8"

Center Fixed Panel Series

Catalog No.	Overall Dimension Width Height	Glass Size Operating Panel	Glass Size Center Fixed Panel
4820SCF	4' 8" x 1' 11-5/8"	12-1/2" x 20"	28" x 20"
5420SCF	5' 4" x 1' 11-5/8"	14-1/2" x 20"	32" x 20"
6020SCF	6' 0" x 1' 11-5/8"	16-1/2" x 20"	36" x 20"
4830SCF	4' 8" x 2' 11-5/8"	12-1/2" x 32"	28" x 32"
5430SCF	5' 4" x 2' 11-5/8"	14-1/2" x 32"	32" x 32"
6030SCF	6' 0" x 2' 11-5/8"	16-1/2" x 32"	36" x 32"
4834SCF	4' 8" x 3' 3-5/8"	12-1/2" x 36"	28" x 36"
5434SCF	5' 4" x 3' 3-5/8"	14-1/2" x 36"	32" x 36"
6034SCF	6' 0" x 3' 3-5/8"	16-1/2" x 36"	36" x 36"
4838SCF	4' 8" x 3' 7-5/8"	12-1/2" x 40"	28" x 40"
5438SCF	5' 4" x 3' 7-5/8"	14-1/2" x 40"	32" x 40"
6038SCF	6' 0" x 3' 7-5/8"	16-1/2" x 40"	36" x 40"
7020SCF	7' 0" x 1' 11-5/8"	19-1/2" x 20"	42" x 20"
7030SCF	7' 0" x 2' 11-5/8"	19-1/2" x 32"	42" x 32"
7034SCF	7' 0" x 3' 3-5/8"	19-1/2" x 36"	42" x 36"
7038SCF	7' 0" x 3' 7-5/8"	19-1/2" x 40"	42" x 40"
8020SCF	8' 0" x 1' 11-5/8"	22-1/2" x 20"	48" x 20"
8030SCF	8' 0" x 2' 11-5/8"	22-1/2" x 32"	48" x 32"
8034SCF	8' 0" x 3' 3-5/8"	22-1/2" x 36"	48" x 36"
8038SCF	8' 0" x 3' 7-5/8"	22-1/2" x 40"	48" x 40"

JALOUSIE WINDOW SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: Ualco Lifetime Aluminum Jalousie Windows shall be fabricated of solid extruded aluminum, alloy 6063-T5 of not less than 22,000 P.S.I. tensile strength. Frame members shall have a minimum depth of 3/8" and a minimum thickness of 0.063 and this thickness shall be increased to 0.125 at those sections of the jamb to which louver clips attach and to 0.125 at the outside edge of installation fins.

Ualco Jalousie louver clips and actuating linkage shall be attached to the frame and to each other with rivets and bolts of special aluminum alloy.

CONSTRUCTION: Ualco Jalousie frame members shall be coped to a hairline fit and assembled with 2 aluminum sheet metal screws at each corner. The head section shall have an integrally extruded drip cap.

FINISH: Standard finish shall be etched unless otherwise specified:

MULLIONS: Mullions shall be Ualco standard types and sizes.

ACCESSORIES: Accessories shall include standard Ualco Anchor Clips, Brick Fin and Fin Trim.

WEATHERSTRIPPING: Ualco Lifetime Aluminum Jalousie Window shall be weatherstripped at each jamb with a specially extruded vinyl bulb type weatherstripping, fitted into an integrally extruded weatherstrip channel so that all louvers when in the closed position make contact with the weatherstripping. Louvers shall be so placed that there is a 1/2" overlap between louvers.

HARDWARE: Ualco Lifetime Aluminum Jalousie windows shall be equipped with operators of die cast zinc with an aluminum lacquer finish. Operators shall be accessible without removing the screen. Windows are normally prepared for attachment of hardware to the righthand jamb viewed from inside, but may be attached to the lefthand jamb, if so specified.

Where specified, 2 operators may be used in the same unit in order to operate upper and lower sections independently.

SCREENS: Screen frames shall be fabricated from rolled aluminum sections, mitered at the corners and joined by concealed corner reinforcing angles. Screen cloth shall be 18/14 mesh aluminum wire held in the frames by removable aluminum spline.

STORM SASH: Storm Sash shall be fabricated of extruded aluminum frame sections with vinyl weatherstripping, and shall be factory glazed with DSB glass. Storm Sash shall be interchangeable with screens.

ERECTION: (Under separate contract) Windows shall be erected in prepared openings according to Manufacturer's installation instructions and drawings. Windows shall be set plumb, level and square. Jamb sections shall not be twisted or distorted in any manner. Operating parts shall be protected from any foreign matter.

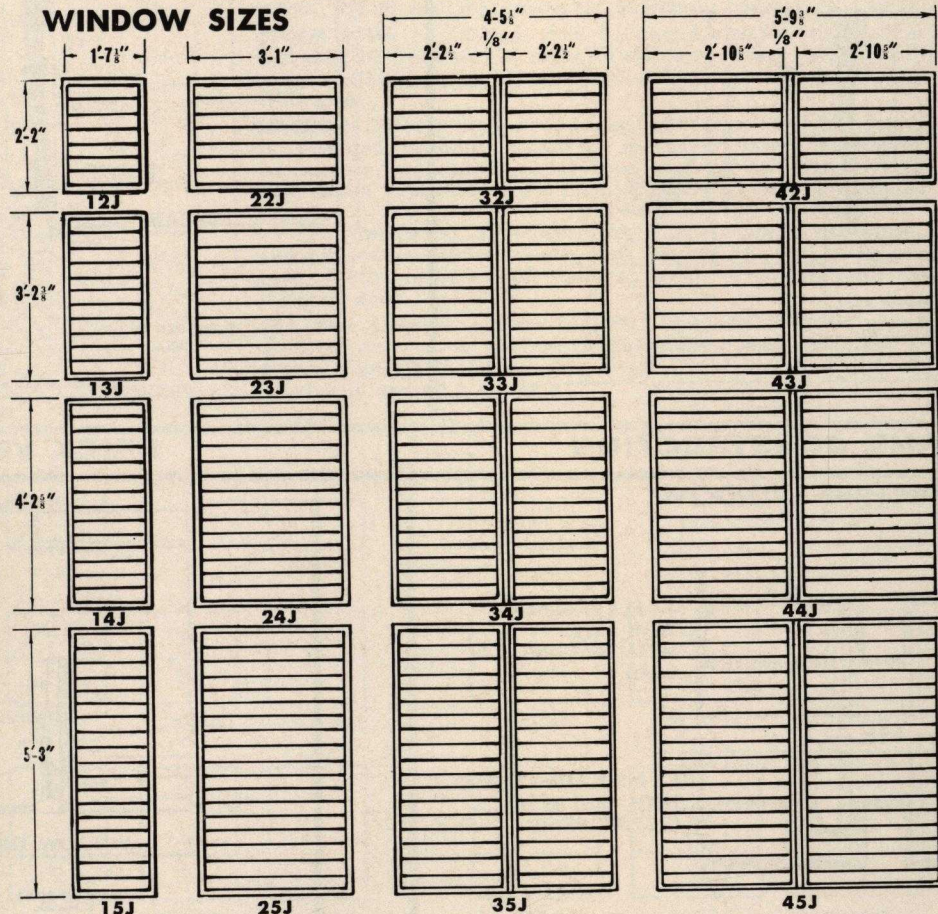
For installations in masonry walls, fins, anchoring accessories, and all window surfaces contacting masonry shall be given one coat of bituminous asphalt paint at points of contact with the masonry walls.

GLAZING: (Under separate contract) Glazing shall be accomplished with 7/32 clear or obscure plate glass, with edges ground to a smooth finish.

Ualco Jalousies may be ordered in almost any height up to 10'6" and in widths up to our standard 37".

Greater widths may be obtained by "mullioning on" or adding additional sections up to 37". The height is contingent on the number of louvers in each window. To determine other than standard, please refer to Ualco Jalousie Price List.

WINDOW SIZES



JALOUSIE DOOR

SPECIFICATIONS

DOOR FRAME: West Coast 1 1/4" fir, unpainted. (See sizes below).

LOUVER FRAME: Specially extruded aluminum. Lifetime, satin-finish. Cannot rust, rot, split or warp. Unaffected by salt water vapor.

GLASS LOUVERS: Glass included with door. Available in either clear or obscure sheet.

OPERATION: Complete ventilation control at fingertips. Fool-proof mechanism.

LOUVER LOCK: Louvers lock automatically in all positions for protection and privacy.

DOOR SIZES

SIZE	No. Louvers	Glass Size
2'-6" x 6'-8"	18	4" x 17 1/8"
2'-8" x 6'-8"	18	4" x 19 1/4"
2'-8" x 7'-0"	18	4" x 19 1/4"
3'-0" x 6'-8"	18	4" x 23 3/8"
3'-0" x 7'-0"	18	4" x 23 3/8"

JALOUSIE GLASS SIZES

No.	LOUVER SIZE
12J	6 @ 4"x16" and 1 @ 3 1/2"x16"
13J	10 @ 4"x16" and 1 @ 2" x16"
14J	13 @ 4"x16" and 1 @ 3 1/2"x16"
15J	17 @ 4"x16" and 1 @ 2" x16"
22J	6 @ 4"x33 1/8" and 1 @ 3 1/2"x33 1/8"
23J	10 @ 4"x33 1/8" and 1 @ 2" x33 1/8"
24J	13 @ 4"x33 1/8" and 1 @ 3 1/2"x33 1/8"
25J	17 @ 4"x33 1/8" and 1 @ 2" x33 1/8"
32J	12 @ 4"x23 1/8" and 2 @ 3 1/2"x23 1/8"
33J	20 @ 4"x23 1/8" and 2 @ 2" x23 1/8"
34J	26 @ 4"x23 1/8" and 2 @ 3 1/2"x23 1/8"
35J	14 @ 4"x23 1/8" and 2 @ 2" x23 1/8"
42J	12 @ 4"x31 1/8" and 2 @ 3 1/2"x31 1/8"
43J	20 @ 4"x31 1/8" and 2 @ 2" x31 1/8"
44J	26 @ 4"x31 1/8" and 2 @ 3 1/2"x31 1/8"
45J	34 @ 4"x31 1/8" and 2 @ 2" x31 1/8"

Glass Thickness—7/32nds.
Crystal Sheet clear or obscure.

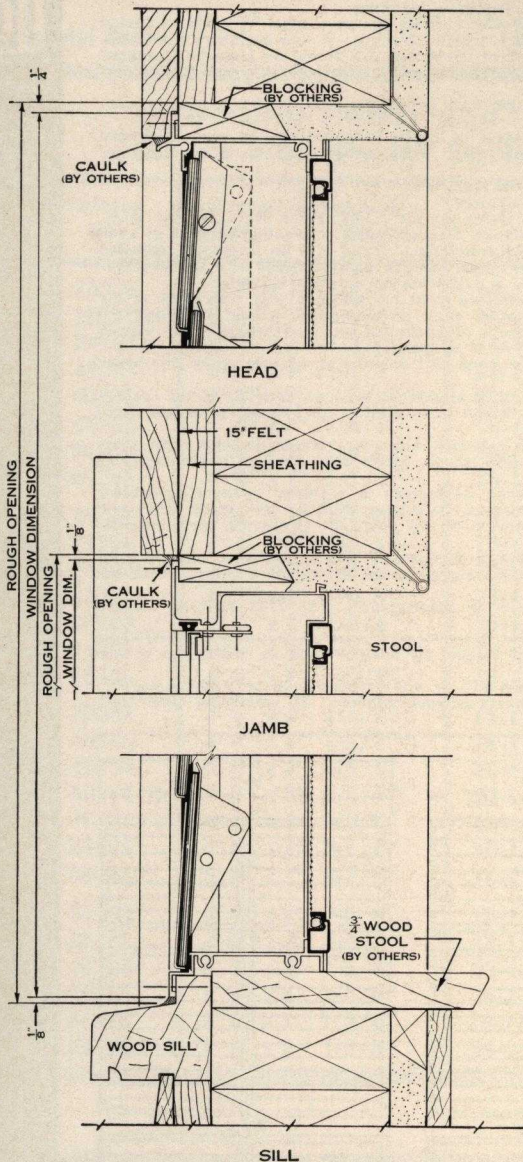
Ualco

aluminum jalousie windows

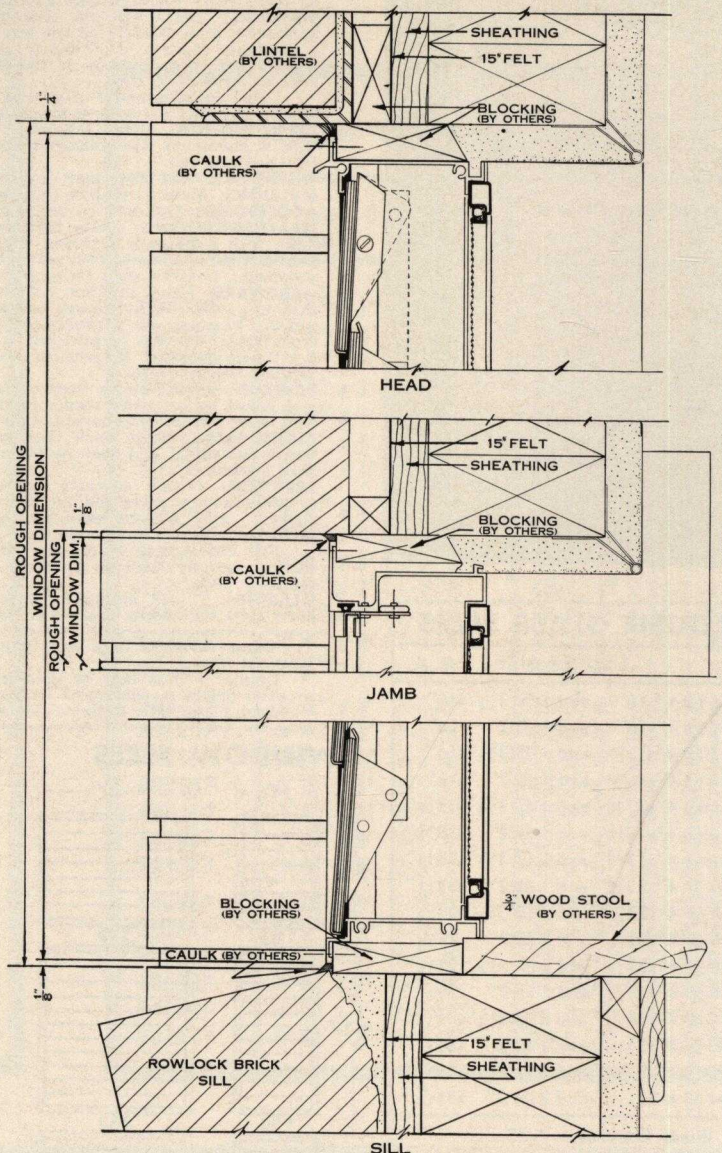
UALCO ALUMINUM JALOUSIE WINDOWS

NOTE: ON ALL FIN TRIM, BRICK MOLD, AND MULLION INSTALLATIONS
— BUTTER WITH CAULKING COMPOUND BEFORE ASSEMBLY

INSTALLATION DETAILS

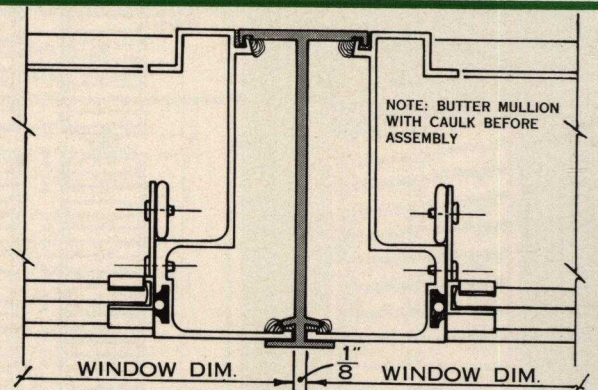
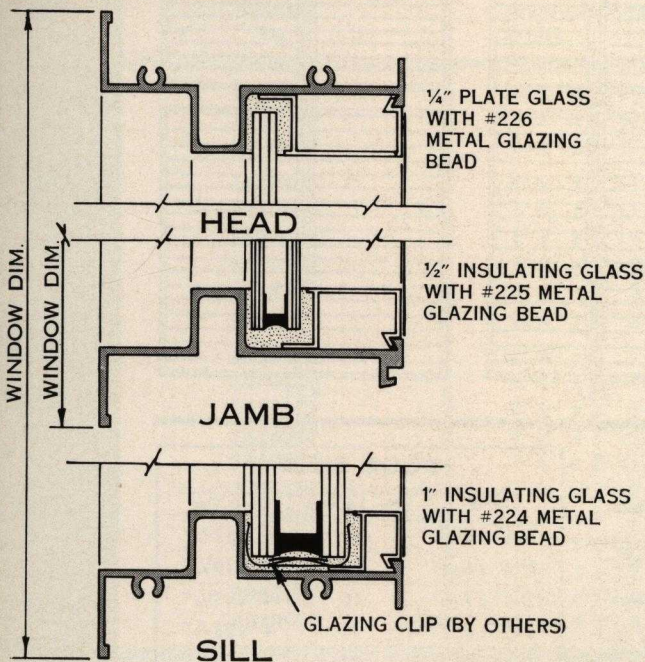


FRAME CONSTRUCTION



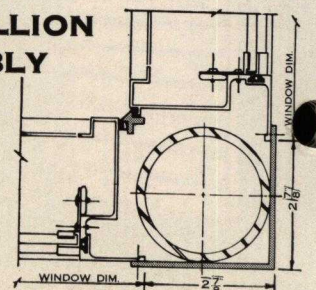
BRICK VENEER

JALOUSIE PICTURE WINDOW

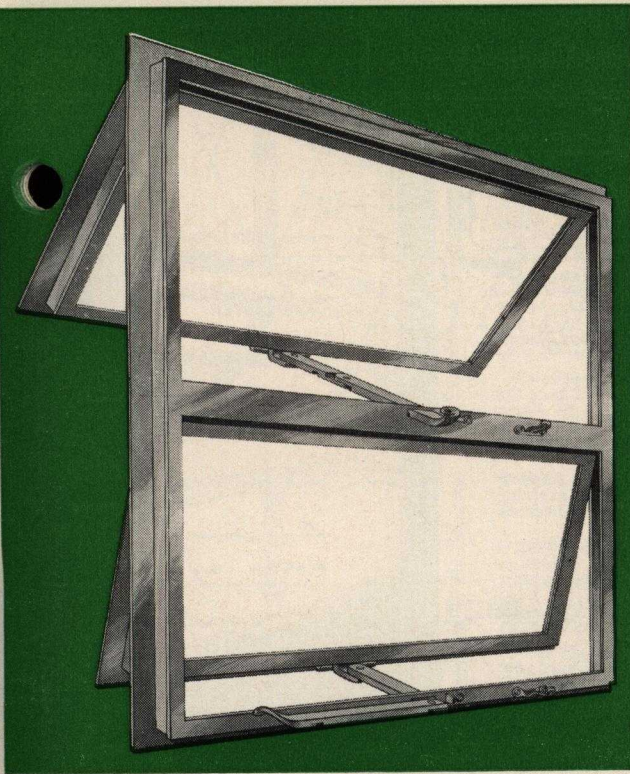


"TEE" MULLION ASSEMBLY

JALOUSIE CORNER MULLION



NOTE: THERMO-FILLERS ARE AVAILABLE FOR JALOUSIE PICTURE WINDOWS. SEE PAGE 19.



GLASS SIZES

1 23" x 15-1/2"	12 48-1/2" x 51"
2 35" x 15-1/2"	13 24" x 67-1/4"
3 47-1/4" x 15-1/2"	14 36-1/4" x 67-1/4"
4 24" x 17-1/4"	15 48-1/2" x 67-1/4"
5 36-1/4" x 17-1/4"	16 24" x 16"
6 48-1/2" x 17-1/4"	17 36-1/4" x 16"
7 24" x 35"	18 48-1/2" x 16"
8 36-1/4" x 35"	19 23" x 16"
9 48-1/2" x 35"	20 35" x 16"
10 24" x 51"	21 47-1/4" x 16"
11 36-1/4" x 51"	

SELECT-A-VENT SIZES

 1126	 1126P	 1138	 1138P	 1150	 1150P
 2226	 2226F	 2226P	 2238	 2238F	 2238P
 3226	 3226P	 3238	 3238F	 3250	 3250P
 4226	 4226P	 4238	 4238P	 4250	 4250P

SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: UALCO Lifetime Aluminum Select-A-Vent windows shall be fabricated of solid extruded aluminum, alloy 6063-T5, of not less than 22,000 P.S.I. tensile strength. All sections shall have a minimum thickness of 0.094" and 0.125". Frame and ventilator members shall have a minimum depth of 1".

CONSTRUCTION: All corners shall be mortised, tenoned, and securely riveted. An integral continuous hinge shall be extruded in the frame head section and in the ventilator head sections to form an interlocking hinge across the full width of each ventilator.

FINISH: Standard finish shall be etched unless otherwise specified.

MULLIONS: Mullions shall be UALCO standard types and sizes.

ACCESSORIES: Accessories shall include standard UALCO Anchor Clips and Fins, Fin Trim, and Brick Fin.

HARDWARE: Hardware shall be underscreen operated and shall be either the Push Bar type or Rotary type.

If Push Bar type hardware is specified the bottom rail of the ventilator and the sill section of the frame shall consist of a section of sufficient depth to prevent the Push Bar from binding on the stool where a ventilator occurs at the sill of the window.

If Rotary type hardware is specified, a specially designed section shall be used at the frame sill and ventilator bottom rail to receive the Rotary hardware.

The Push Bar shall be jointed so as to permit the Bar to be folded against the frame or meeting rail members when the ventilator is in the one-half open or completely closed position. A Push Bar Catch shall be provided for the Push Bar when the ventilator is in the locked position.

SCREENS: Screens shall be fabricated of extruded or rolled aluminum frame members, mitered at the corners and joined by concealed corner reinforcing angles. Screen cloth shall be 18/14 mesh aluminum wire held in the frames by vinyl or aluminum spline. Spline shall be removable to permit rewiring of screens.

STORM SASH: Storm Sash shall be interchangeable with screens and shall be fabricated of extruded aluminum frame sections with vinyl weatherstripping. Storm Sash shall be factory glazed with DSB glass.

ERECTION: (Under separate contract) Windows shall be erected in prepared openings according to manufacturers installation instructions and drawings. Windows shall be set plumb, level, and square. Operating parts shall be protected from any foreign matter.

For installation in masonry walls, Fins, Anchoring Accessories, and all window surfaces contacting masonry shall be given one coat of bituminous asphalt paint at points of contact with the masonry wall.

GLAZING: (Under separate contract) Windows shall be glazed standard glass up to 1/4" in thickness. Lites shall be bedded in glazing compound, glazing clips inserted, and lites shall then be faced with glazing compound.

INSTALLATION DETAILS

**ROUGH OPENING
WINDOW DIMENSION**

NOTE: SILL SECTION FOR STAY-BAR OPERATOR

1 $\frac{1}{4}$ HARDWARE CLEARANCE

CAULK (BY OTHERS)

3 $\frac{3}{4}$ WOOD STOOL (BY OTHERS)

SHEET ROCK

SHEATHING

TRIM (BY OTHERS)

SILL

SILL

HEAD

TRANSOM

WINDOW DIM.

$\frac{1}{4}$ " HARDWARE CLEARANCE

SILL ASSEMBLY STAY-BAR OPERATION

WINDOW DIM.

7 7/8"

HARDWARE CLEARANCE

SILL ASSEMBLY ROTARY OPERATION

A cross-sectional diagram of a window assembly. It shows a double-pane window with a central mullion. The panes are separated by a gap labeled "3" 3/32". The width of each pane is labeled "WINDOW DIM.". The diagram illustrates the internal structure, including the mullion and the panes, with a central gap between them.

180° "TEE" MULLION

IMPORTANT NOTE:
TYPE OF HARDWARE
MUST BE SPECIFIED!
STAY-BAR OPERATOR
ROTARY OPERATOR

 $1\frac{5}{8}$ O. D. ALUM. TUBE

IMPORTANT NOTE:
TYPE OF HARDWARE
MUST BE SPECIFIED!

1. STAY-BAR OPERATOR
2. ROTARY OPERATOR

5" $\frac{1}{8}$ " O. D. ALUM. TUBE

JAMB JAMB

WINDOW DIMENSION

1 $\frac{1}{4}$ "

WINDOW DIM.

90° CORNER MULLION

NOTE: SEE ALSO CASEMENT 135° MULLION—PAGE 4.

SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: UALCO Lifetime Aluminum Commercial Projected Windows shall be fabricated of solid extruded aluminum alloy 6063-T5, of not less than 22,000 P.S.I. tensile strength. All sections shall have a minimum thickness of 0.125" except the bottom rail of ventilator sections which shall have a minimum thickness of 0.187". All sections shall have a minimum depth of 1-1/2" and 1-5/8", and outside frame members shall provide a minimum of 1/2" wall bearing.

Positioning arms of ventilators shall be 1" x 0.187" in cross section. Positioning arms of ventilators shall be attached to frame and ventilator by stainless steel shouldered rivets.

CONSTRUCTION: Frame and ventilator corners shall be mortised, tenoned, and securely riveted.

VENTILATORS: Ventilators shall have specially designed nylon friction shoes, spring loaded to maintain constant pressure at all positions of the ventilator opening. Balance arms shall position ventilators for up to 50% maximum opening.

Ventilators shall have double contact weathering surfaces parallel to the face of the window.

FINISH: Standard finish shall be mill finish unless otherwise specified.

MULLIONS: Mullions shall be UALCO standard types and sizes.

ACCESSORIES: Accessories shall include standard UALCO Anchor Clips.

HARDWARE: Hardware shall be cast white bronze with clear lacquer finish. Hardware type shall be as specified for desired method of operation. Hardware screws shall be attached into replaceable aluminum grommets.

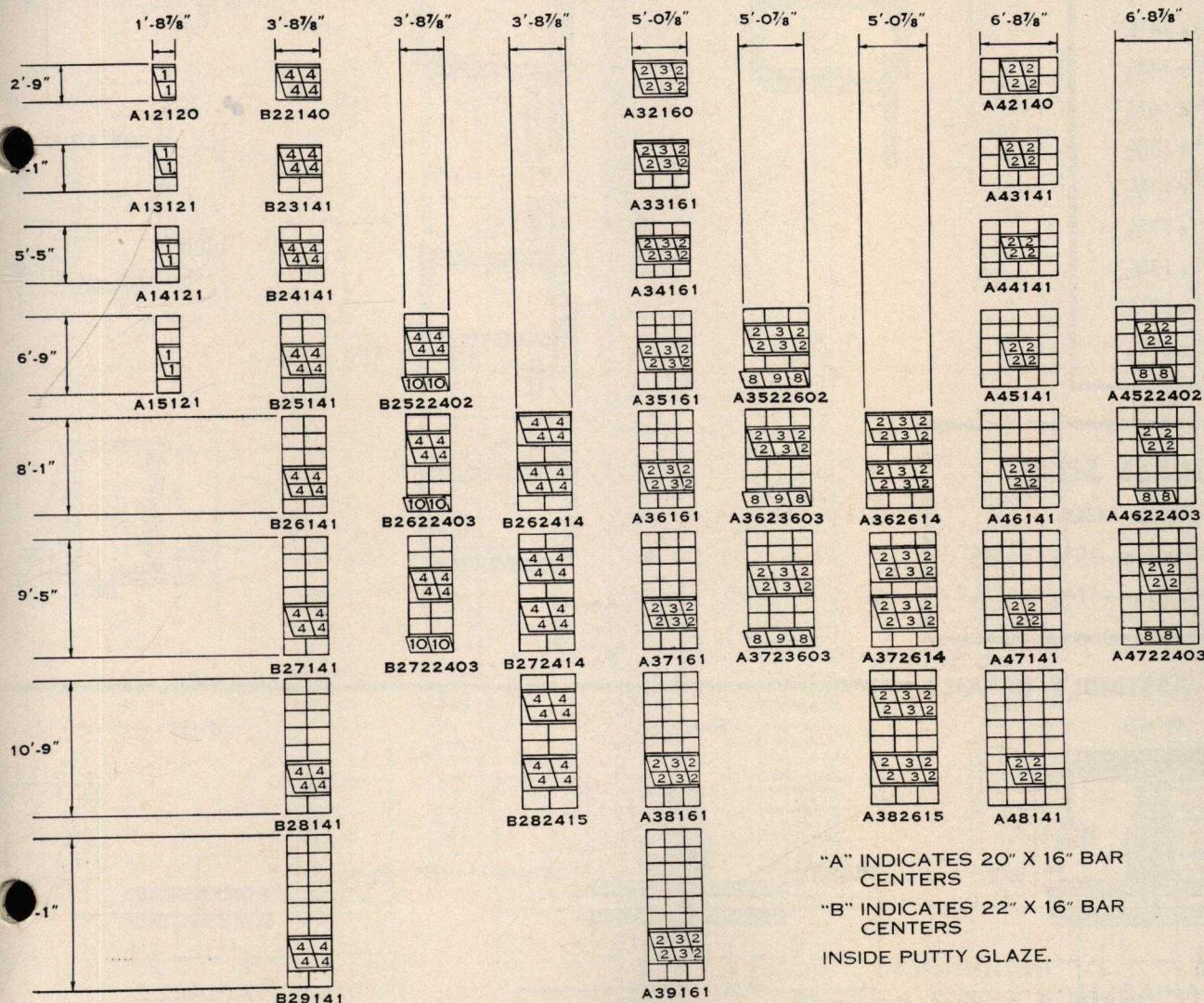
SCREENS: Screens shall be fabricated of extruded aluminum sections, wired with 18/14 aluminum wire mesh with removable vinyl spline. Screens for Project-Out vents shall be of the Horizontal Sliding Wicket type attachable to the inside face of the window; screens for Project-In vents shall be attachable to the outside face of the window, removable from inside. (See details - page 32).

ERECTION: (Under separate contract) Windows shall be erected in prepared openings according to Manufacturer's installation drawings and instructions. Windows shall be set plumb, level, and square. Operating parts shall be protected from all foreign matter.

For erection in masonry walls, Fins, Anchors and window surfaces contacting masonry shall be given one coat of bituminous asphalt paint at points of contact with the masonry wall.

GLAZING: (Under separate contract) Windows shall be designed for inside glazing with sheet glass up to 1/4" in thickness and glazing compound, or with 1/2" insulating glass and glazing bead.

COMMERCIAL PROJECTED TYPES AND SIZES



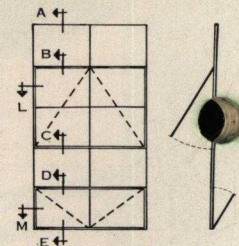
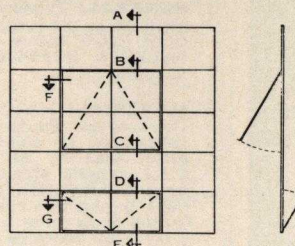
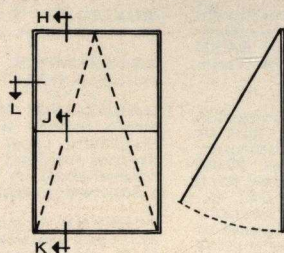
NOTE: SEE NEXT PAGE FOR GLASS SIZES

Ualco

aluminum commercial projected windows

UALCO ALUMINUM COMMERCIAL PROJECTED WINDOWS

**ASSEMBLY
DETAILS
HALF
SIZE**



COMMERCIAL PROJECTED WINDOW

GLASS SIZES

VENTS

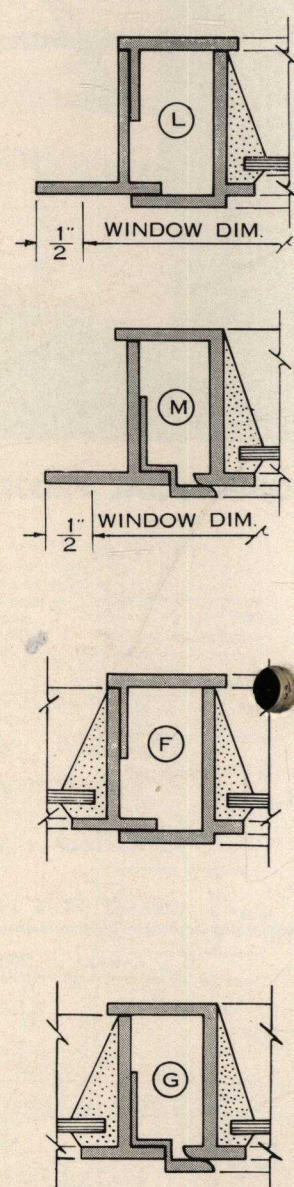
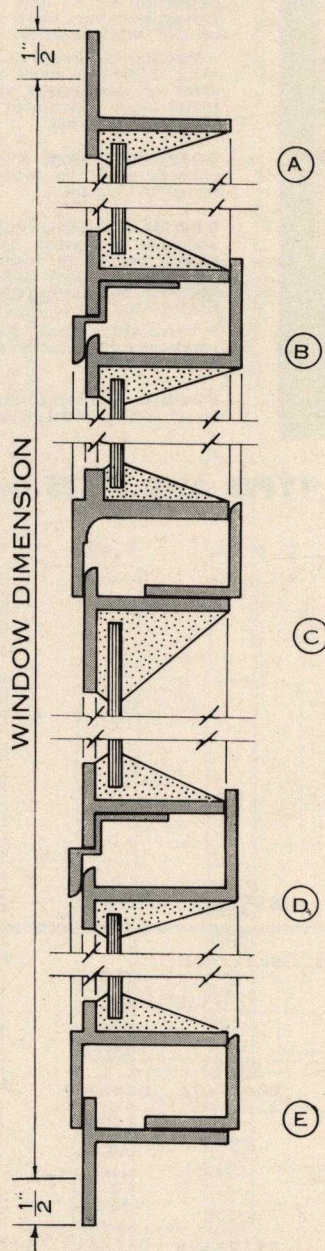
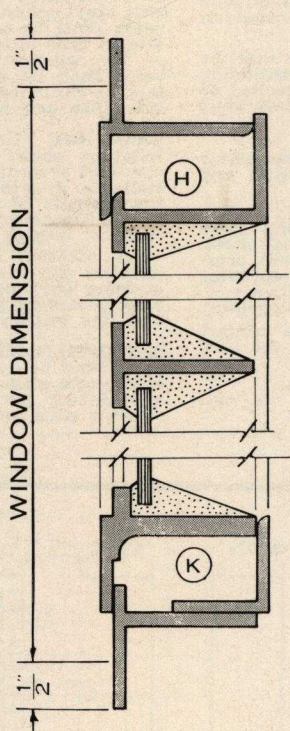
1. $17\frac{5}{8}" \times 14\frac{5}{8}"$
2. $18\frac{5}{8}" \times 14\frac{5}{8}"$
3. $19\frac{5}{8}" \times 14\frac{5}{8}"$
4. $20\frac{5}{8}" \times 14\frac{5}{8}"$
5. $22\frac{5}{8}" \times 14\frac{5}{8}"$
6. $14\frac{5}{8}" \times 14\frac{5}{8}"$
7. $17\frac{5}{8}" \times 13\frac{5}{8}"$
8. $18\frac{5}{8}" \times 13\frac{5}{8}"$
9. $19\frac{5}{8}" \times 13\frac{5}{8}"$
10. $20\frac{5}{8}" \times 13\frac{5}{8}"$
11. $22\frac{5}{8}" \times 13\frac{5}{8}"$
12. $14\frac{5}{8}" \times 13\frac{5}{8}"$

GLASS SIZES

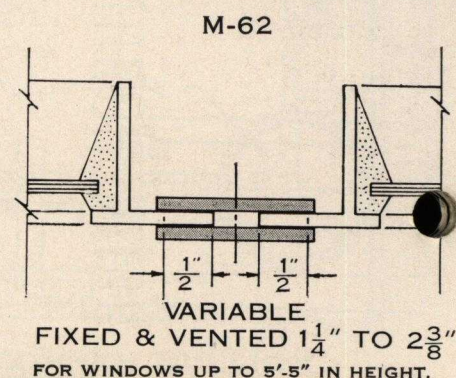
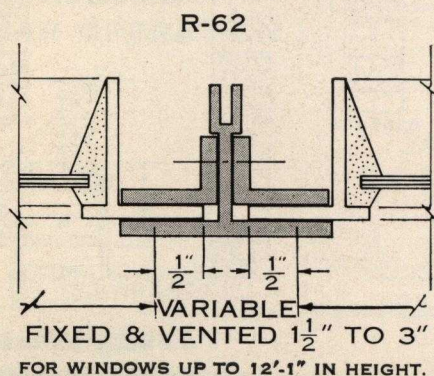
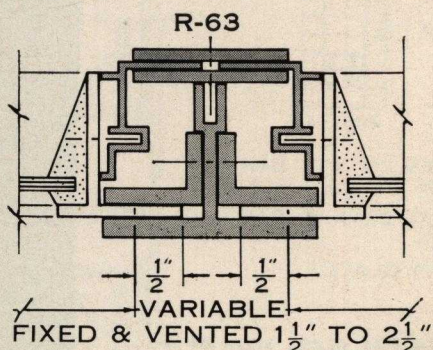
FIXED LITES

All "A" Windows— $19\frac{5}{8}" \times 15\frac{5}{8}"$

All "B" Windows— $21\frac{5}{8}" \times 15\frac{5}{8}"$



MULLION ASSEMBLY DETAILS



SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: UALCO Lifetime Aluminum Commercial Pivoted Windows shall be fabricated of solid extruded aluminum, alloy 6063-T5, of not less than 22,000 P.S.I. tensile strength. All sections shall have a minimum thickness of 0.125". All sections shall have a minimum depth of 1-1/2" and 1-5/8", and outside frame members shall provide 1/2" wall bearing.

CONSTRUCTION: Frame and ventilator corners shall be mortised, tenoned, and securely riveted.

VENTILATORS: Ventilators shall pivot at a point 2-1/16" above center of ventilator.

FINISH: Standard finish shall be mill finish unless otherwise specified.

MULLIONS: Mullions shall be UALCO standard types and sizes.








































ACCESSORIES: Accessories shall include standard UALCO Anchor Clips.

HARDWARE: Hardware shall be as specified for type operation desired. Manual operation shall be by push bar hardware, and remote operation shall be by spring catch, and chain hardware.

ERECTION: (Under separate contract) Windows shall be erected in prepared opening according to Manufacturer's installation drawings and instructions. Windows shall be set plumb, level, and square. Operating parts shall be protected from all foreign matter. For erection in masonry walls, Fins, Anchors, and window surfaces contacting masonry shall be given one coat of bituminous asphalt paint.

GLAZING: (Under separate contract) Windows shall be designed for inside glazing with sheet glass up to 1/4" in thickness and glazing compound, or with 1/2" insulating glass and glazing bead.

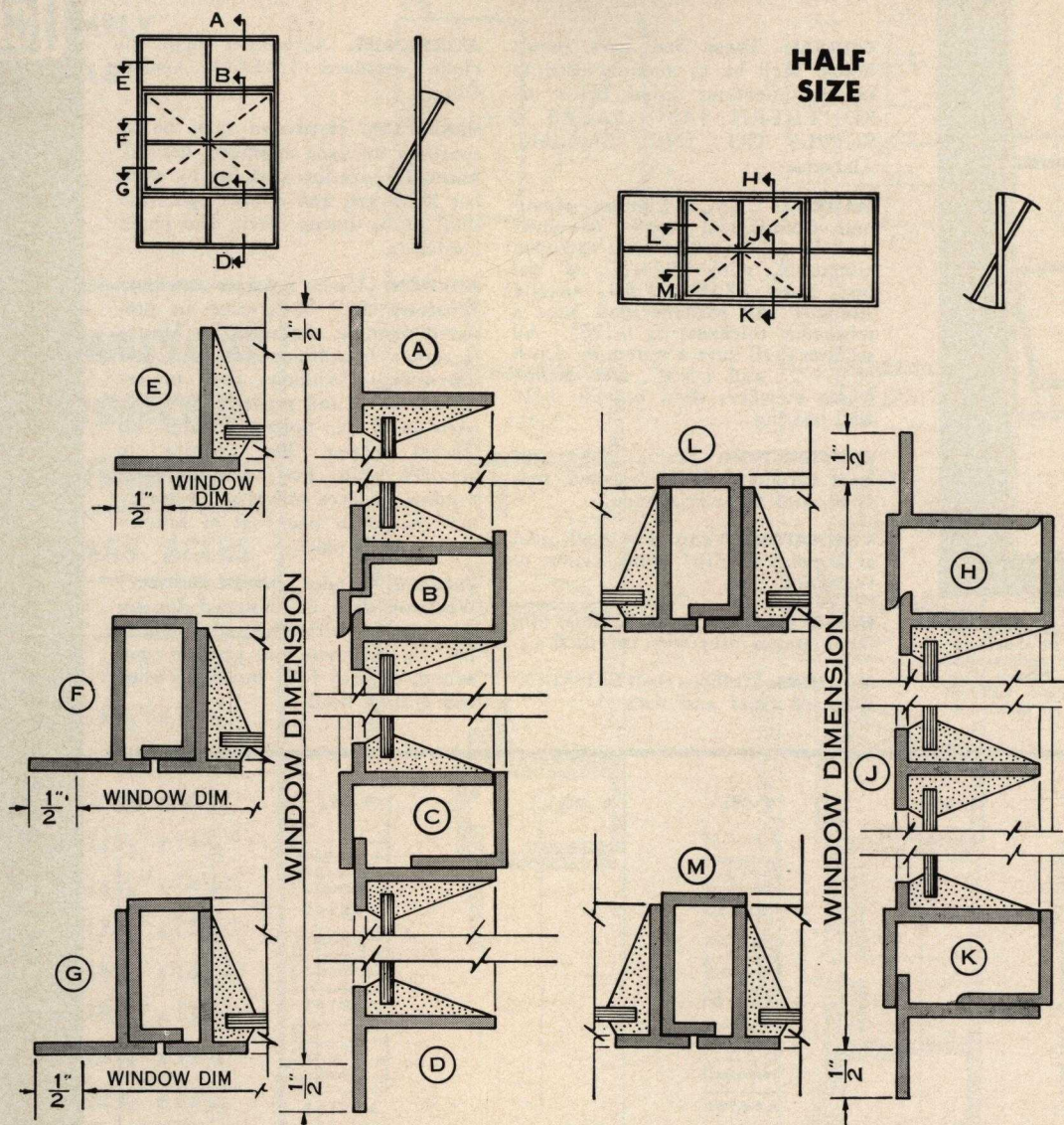
Ualco Pivoted Windows are designed for permanence and rugged use. Made of extra heavy solid extruded aluminum. Ventilators are accurately balanced and assure maintenance-free operation. Hardware is heavy duty. Ualco Pivoted Windows may be installed as units or as continuous walls of glass. They meet all construction requirements for light, ventilation and economy.

	1'-8 7/8"	3'-8 7/8"	3'-8 7/8"	5'-0 7/8"	5'-0 7/8"	6'-8 7/8"	6'-8 7/8"
2'-9"	 A12120	 B22140		 A32160		 A42140	
4'-1"	 A13121	 B23141		 A33161		 A43141	
5'-5"	 A14121	 B24141		 A34161		 A44141	
6'-9"	 A15121	 B25141	 B25142	 A35161	 A35162	 A45141	 A45142
8'-1"		 B26141	 B262414	 A36161	 A362614	 A46141	 A462414
9'-5"		 B27141	 B272414	 A37161	 A372614	 A47141	 A472414
10'-9"		 B28141	 B282415	 A38161	 A382615	 A48141	 A482415
12'-1"		 B29141		 A39161			

Aluminum Pivoted Types & Sizes

UALCO ALUMINUM COMMERCIAL PIVOTED WINDOWS

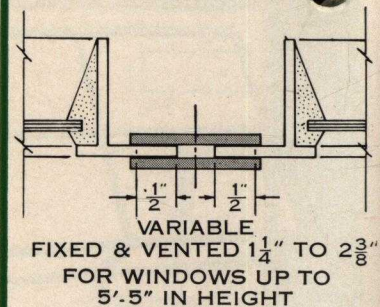
**HALF
SIZE**



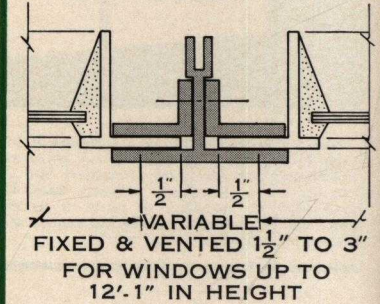
MULLION ASSEMBLY DETAILS

NOTE: BUTTER WITH CAULKING
COMPOUND BEFORE ASSEMBLY

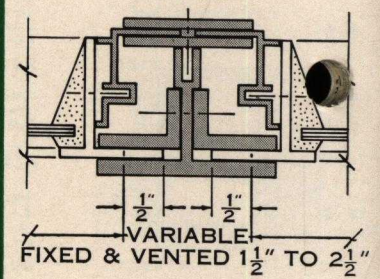
M-62



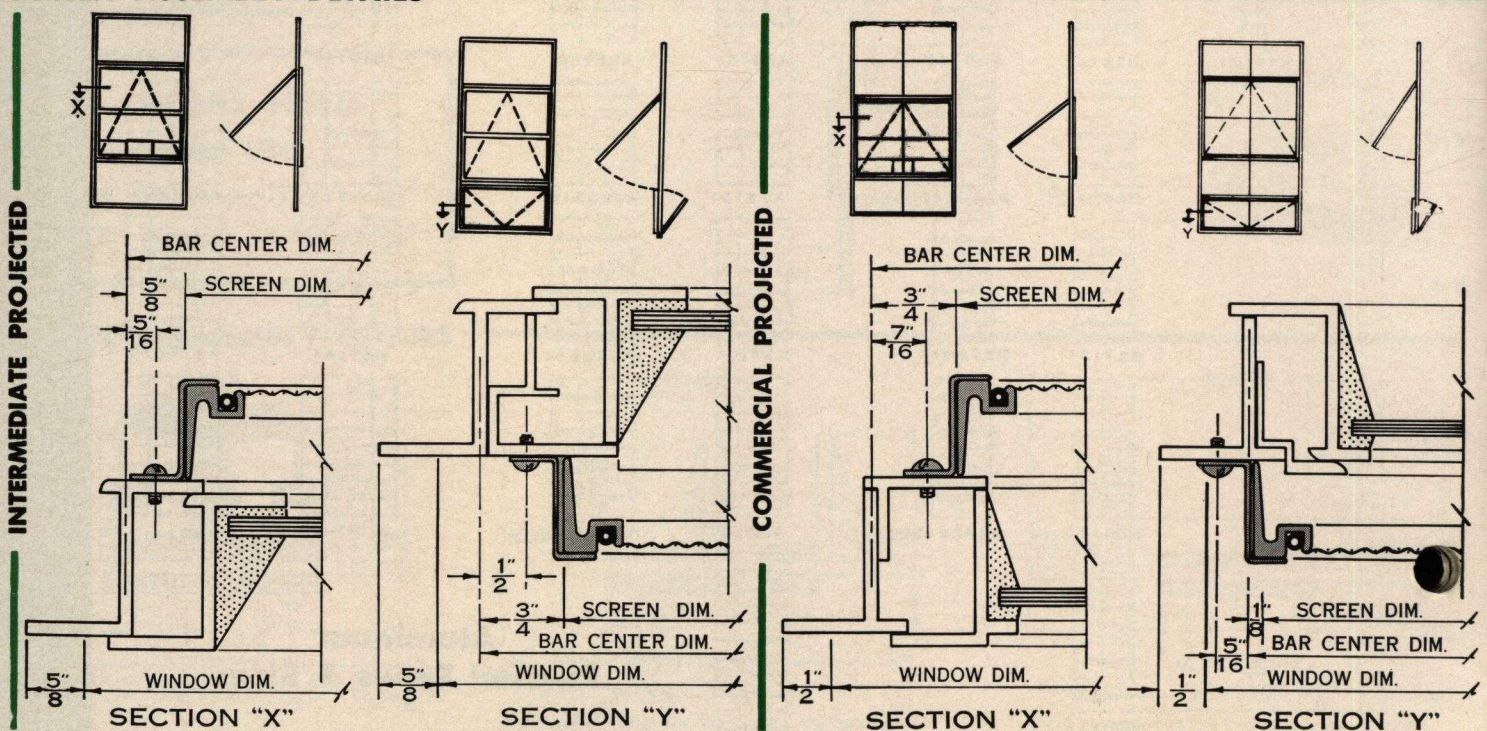
R-62



R-63



SCREEN ASSEMBLY DETAILS



SPECIFICATIONS

GLASS SIZES

1. 17 $\frac{5}{8}$ " x 14 $\frac{5}{8}$ "
2. 37 $\frac{5}{8}$ " x 14 $\frac{5}{8}$ "
3. 45 $\frac{5}{8}$ " x 14 $\frac{5}{8}$ "
4. 28 $\frac{5}{8}$ " x 14 $\frac{5}{8}$ "
5. 16 $\frac{5}{8}$ " x 13 $\frac{5}{8}$ "
6. 36 $\frac{5}{8}$ " x 13 $\frac{5}{8}$ "
7. 44 $\frac{5}{8}$ " x 13 $\frac{5}{8}$ "
8. 27 $\frac{5}{8}$ " x 13 $\frac{5}{8}$ "
9. 19 $\frac{5}{8}$ " x 15 $\frac{5}{8}$ "
10. 39 $\frac{5}{8}$ " x 15 $\frac{5}{8}$ "
11. 47 $\frac{5}{8}$ " x 15 $\frac{5}{8}$ "
12. 29 $\frac{5}{8}$ " x 15 $\frac{5}{8}$ "
13. 20 $\frac{5}{8}$ " x 13 $\frac{5}{8}$ "
14. 21 $\frac{5}{8}$ " x 14 $\frac{5}{8}$ "
15. 23 $\frac{5}{8}$ " x 15 $\frac{5}{8}$ "
16. 28 $\frac{5}{8}$ " x 13 $\frac{5}{8}$ "
17. 29 $\frac{5}{8}$ " x 14 $\frac{5}{8}$ "
18. 31 $\frac{5}{8}$ " x 15 $\frac{5}{8}$ "
19. 40 $\frac{5}{8}$ " x 13 $\frac{5}{8}$ "
20. 41 $\frac{5}{8}$ " x 14 $\frac{5}{8}$ "
21. 43 $\frac{5}{8}$ " x 15 $\frac{5}{8}$ "
22. 52 $\frac{5}{8}$ " x 13 $\frac{5}{8}$ "
23. 53 $\frac{5}{8}$ " x 14 $\frac{5}{8}$ "
24. 55 $\frac{5}{8}$ " x 15 $\frac{5}{8}$ "

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: UALCO Lifetime Aluminum Intermediate Projected Windows shall be fabricated of solid extruded aluminum, alloy 6063-T5, of not less than 22,000 P.S.I. tensile strength. All sections shall have a minimum thickness of 0.125", except the bottom rail of ventilator sections which shall have a minimum thickness of 0.187". Frame sections shall be 1-5/8" deep, ventilator sections shall be 1-5/8" deep, and muntin sections shall be 1-5/8" deep. All muntins shall have vertical flanges 1-5/8" deep for extra strength and inside flanges of all sections shall have a depth of 3/4" both to conceal seams in insulating glass and to increase section moduli.

Frame and ventilator sections shall have a combined horizontal depth of 1-3/4" and a combined vertical depth of 2-15/16" to provide extra rigidity of horizontal members.

Positioning arms of ventilators shall be 1" x 0.187" in cross section, attached to frame and vent members with stainless steel shouldered rivets.

CONSTRUCTION: Frame and ventilator corners shall be mortised, tenoned, and securely riveted.

VENTILATORS: Ventilators shall have specially designed nylon friction shoes, spring loaded to maintain constant pressure at all positions of the ventilator opening. Balance arms shall position ventilator for up to 50% maximum opening.

Ventilators shall have double contact weathering surfaces parallel to the face of the window.

FINISH: Standard finish shall be mill finish unless otherwise specified.

MULLIONS: Mullions shall be UALCO standard types and sizes.

ACCESSORIES: Accessories shall include standard UALCO Anchor Clips.

HARDWARE: Hardware shall be cast white bronze with clear lacquer finish. Hardware type shall be as specified for desired method of operation. Hardware screws shall be attached into replaceable aluminum grommets.

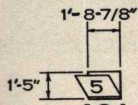
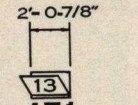
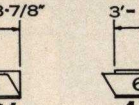
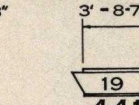
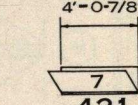
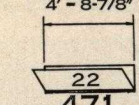
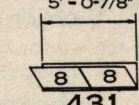

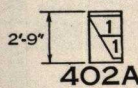

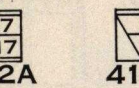

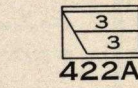
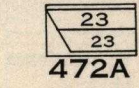
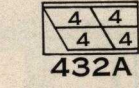

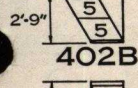
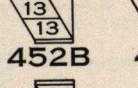
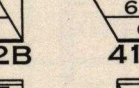
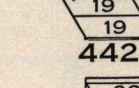
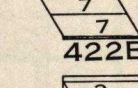
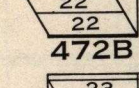
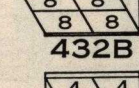

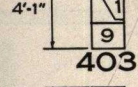
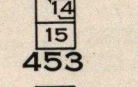
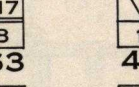
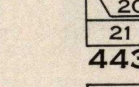
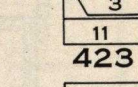
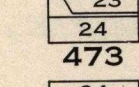
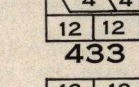

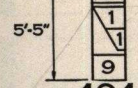
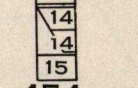
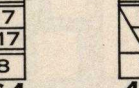
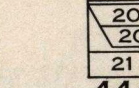
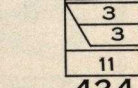
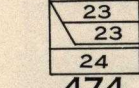
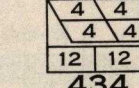

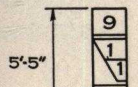
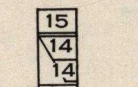
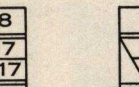

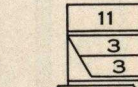
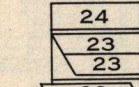
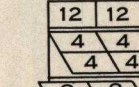

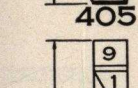
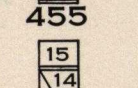
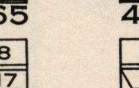
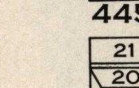
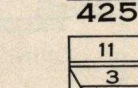
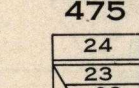
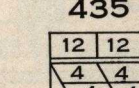

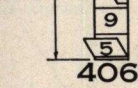
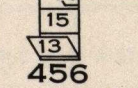
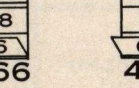
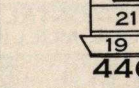
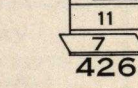
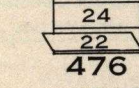
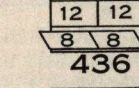

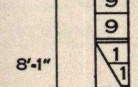
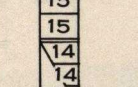
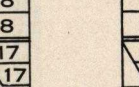
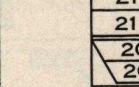
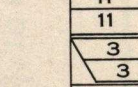
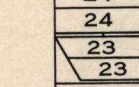
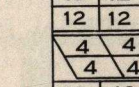

SCREENS: Screens shall be fabricated of extruded aluminum sections, wired with 18/14 aluminum wire mesh, with removable vinyl spline. Screens for Project-Out vents shall be of the Horizontal Sliding Wicket type attachable to the inside face of the window; screens for Project-In vents shall be attachable to the outside face of the window, removable from inside. (See details, page 32).

ERECTION: (Under separate contract) Windows shall be erected in prepared openings according to Manufacturer's installation drawings and instructions. Windows shall be set plumb, level, and square. Operating parts shall be protected from all foreign matter.

For erection in masonry walls, Fins, Anchors, and window surfaces contacting masonry shall be given one coat of bituminous asphalt paint at points of contact with the masonry wall.

GLAZING: (Under separate contract) Windows shall be designed for outside glazing with sheet glass up to 1/4" in thickness and glazing compound or with 1/2" insulating glass and glazing bead.

INTERMEDIATE PROJECTED Types and Sizes

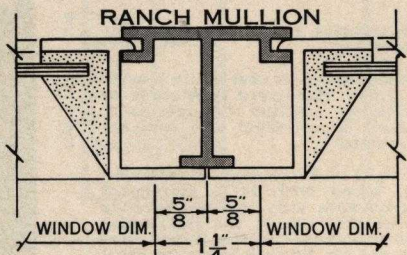
1'-8-7/8"	2'-0-7/8"	2'-8-7/8"	3'-4-7/8"	3'-8-7/8"	4'-0-7/8"	4'-8-7/8"	5'-0-7/8"
 401	 451	 461	 411	 441	 421	 471	 431
 402A	 452A	 462A	 412A	 442A	 422A	 472A	 432A
 402B	 452B	 462B	 412B	 442B	 422B	 472B	 432B
 403	 453	 463	 413	 443	 423	 473	 433
 404	 454	 464	 414	 444	 424	 474	 434
 405	 455	 465	 415	 445	 425	 475	 435
 406	 456	 466	 416	 446	 426	 476	 436
 408	 458	 468	 418	 448	 428	 478	 438
 410	 460	 470	 420	 450	 430	 480	 440

Ualco

aluminum intermediate projected windows

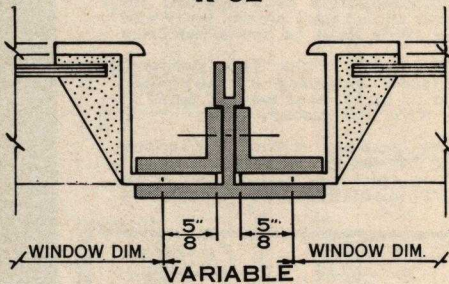
UALCO ALUMINUM INTERMEDIATE PROJECTED WINDOWS

MULLION ASSEMBLY DETAILS



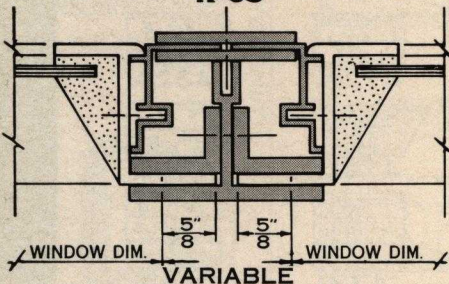
FIXED— $1\frac{1}{8}$ " TO $3\frac{1}{4}$ "
VENTED— $2\frac{1}{2}$ " TO $3\frac{1}{4}$ "

R-62



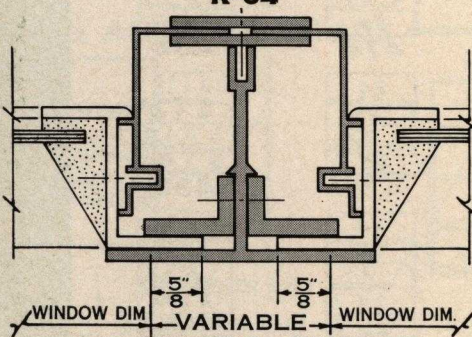
FOR WINDOWS UP TO
12'-1" IN HEIGHT

R-63

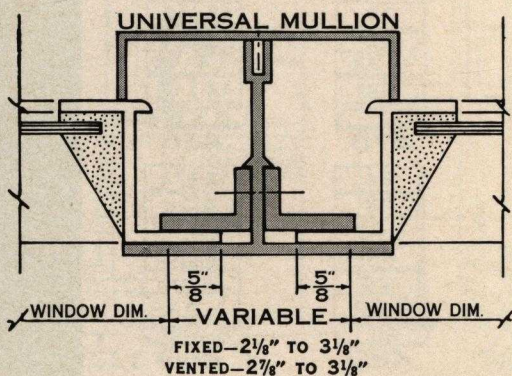


FIXED— $1\frac{3}{4}$ " TO $2\frac{3}{4}$ "
VENTED—2" TO $2\frac{3}{4}$ "

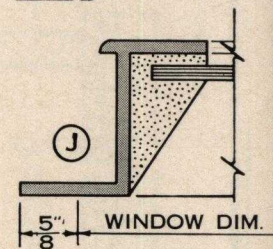
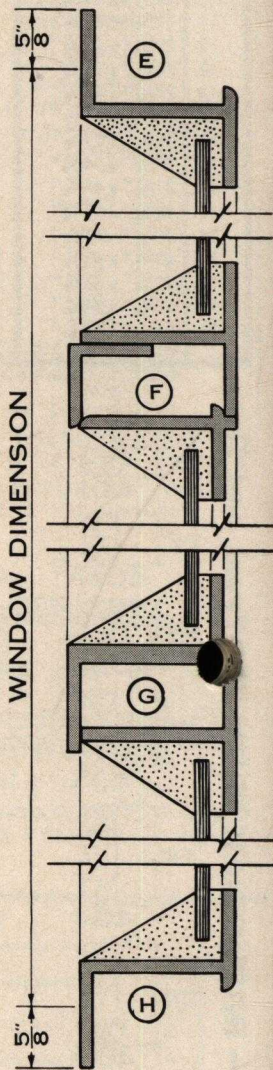
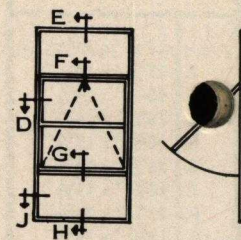
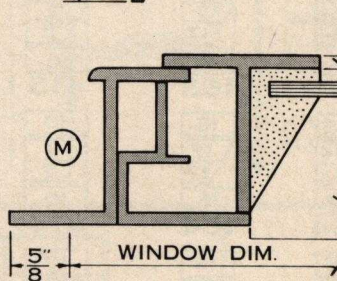
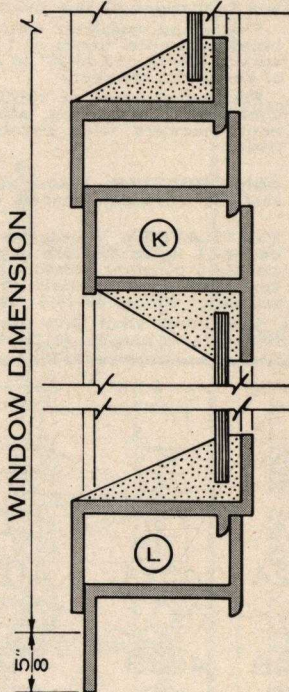
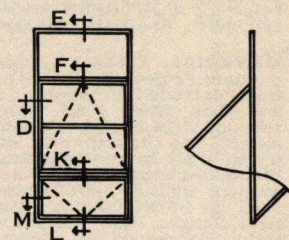
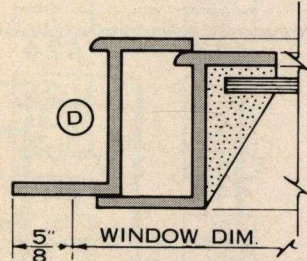
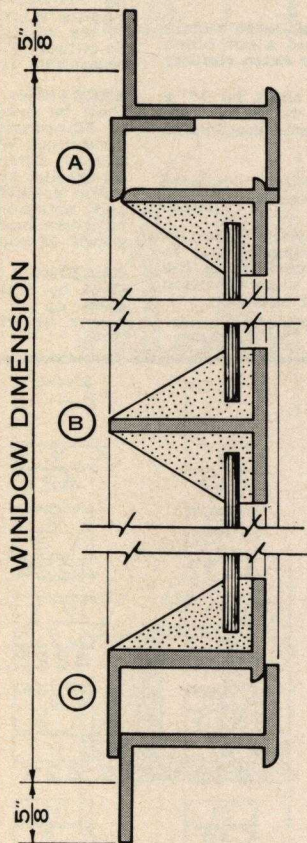
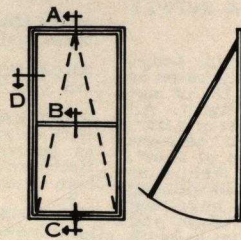
R-64



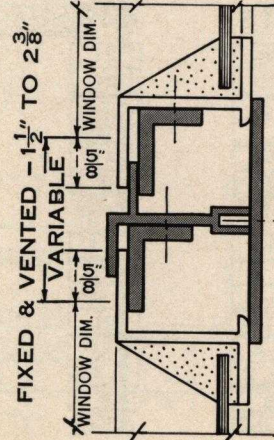
FIXED— $2\frac{1}{8}$ " TO $3\frac{3}{8}$ "
VENTED— $2\frac{7}{8}$ " TO $3\frac{5}{8}$ "



FIXED— $2\frac{1}{8}$ " TO $3\frac{3}{8}$ "
VENTED— $2\frac{7}{8}$ " TO $3\frac{5}{8}$ "



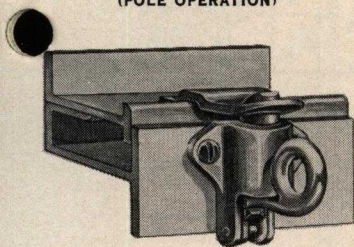
HORIZONTAL VARIABLE MULLION



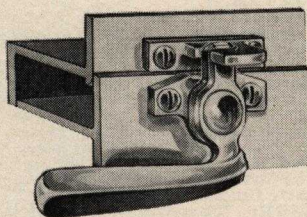
NOTE: BUTTER WITH CAULKING COM-
POUND BEFORE ASSEMBLY

**DETAILS
ONE-
HALF
SIZE**

UN-20 SPRING CATCH & UN-23 KEEPER
FOR INTERMEDIATE PROJECTED & COMMERCIAL
PROJECTED
PROJECT-IN-VENT
(POLE OPERATION)

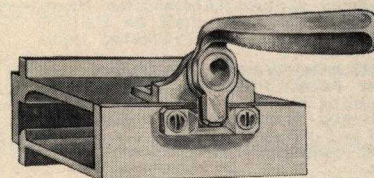


UN-3 CAM LOCK HANDLE & UN-6 KEEPER
FOR INTERMEDIATE PROJECTED ONLY
PROJECT-IN-VENT

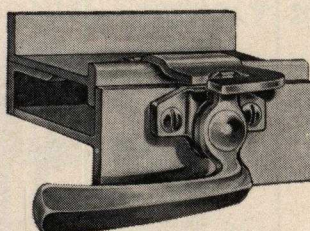


OPTION FOR POLE OPERATION:
UN-15 CAM LOCK HANDLE & UN-6 KEEPER.

UN-12 CAM LOCK HANDLE & UN-4
STRIKE PLATE
FOR COMMERCIAL PROJECTED ONLY.
PROJECT-OUT-VENT

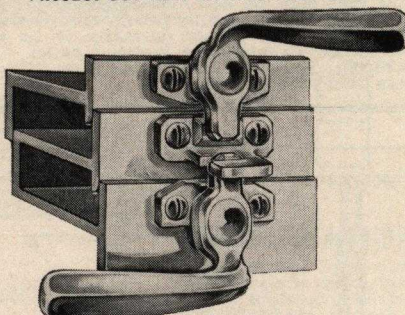


UN-3 CAM LOCK HANDLE & UN-17 KEEPER
FOR INTERMEDIATE PROJECTED & COMMERCIAL
PROJECTED
PROJECT-IN-VENT



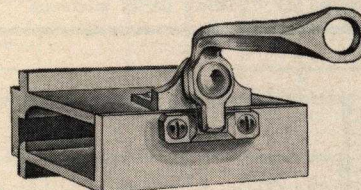
OPTION FOR POLE OPERATION:
UN-15 CAM LOCK HANDLE & UN-17 KEEPER.

UN-3 CAM LOCK HANDLE, UN-25 COMBI-
NATION STRIKE AND KEEPER
UN-3 CAM LOCK HANDLE
FOR INTERMEDIATE PROJECTED ONLY.
PROJECT-OUT-VENT WITH HOPPER BELOW

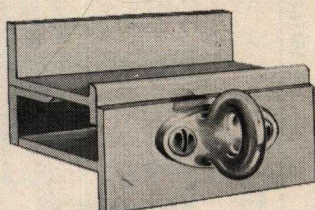


OPTION FOR POLE OPERATION:
UN-15 CAM LOCK HANDLE, UN-25 COMBINATION
STRIKE AND KEEPER, UN-15 CAM LOCK HANDLE.

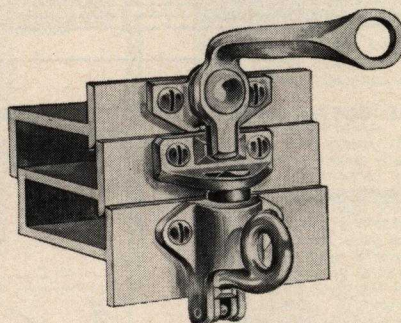
UN-14 CAM LOCK HANDLE & UN-4
STRIKE PLATE
FOR COMMERCIAL PROJECTED ONLY.
PROJECT-OUT-VENT (POLE OPERATION)



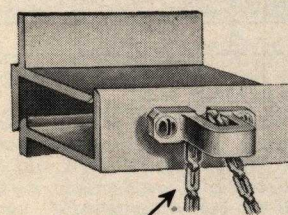
UN-9 POLE RING PULL
FOR INTERMEDIATE PROJECTED & COMMERCIAL
PROJECTED
PROJECT-OUT-VENT
(POLE OPERATION)



UN-15 CAM LOCK HANDLE, UN-24 COM-
BINATION STRIKE & KEEPER AND
UN-20 SPRING CATCH
FOR INTERMEDIATE PROJECTED ONLY
PROJECT-OUT-VENT WITH HOPPER BELOW
(POLE OPERATION)

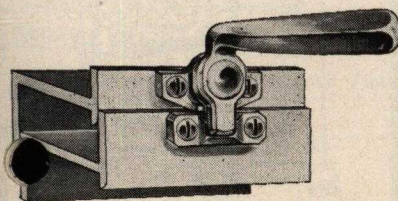


UN-16 CHAIN ROLLER
FOR COMMERCIAL PIVOTED ONLY.
CHAIN OPERATION.



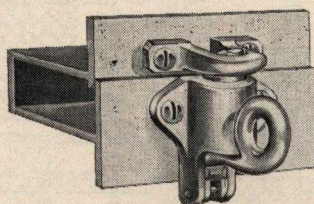
UN-26 SASH CHAIN

UN-3 CAM LOCK HANDLE & UN-4 STRIKE
PLATE
FOR INTERMEDIATE PROJECTED ONLY.
PROJECT-OUT-VENT

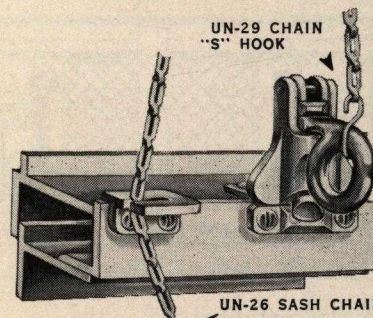


OPTION FOR POLE OPERATION:
UN-15 CAM LOCK HANDLE & UN-4 STRIKE
PLATE.

UN-20 SPRING CATCH & UN-21 KEEPER
FOR INTERMEDIATE PROJECTED ONLY.
PROJECT-IN-HOPPER
(POLE OPERATION)



UN-27 CLEAT & UN-28 SPRING CATCH
WITH UN-4 STRIKE PLATE
FOR COMMERCIAL PIVOTED ONLY.
CHAIN OPERATED



UN-29 CHAIN
"S" HOOK

UN-26 SASH CHAIN

UALCO INTERMEDIATE PROJECTED CURTAIN WALL

SPECIFICATIONS

GENERAL: Curtain Wall component parts shall be as manufactured and distributed to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: Windows, Mullion, Accessories, Hardware, Screens, and Storm Sash shall be UALCO Lifetime Aluminum Intermediate Projected types and sizes.

TYPE "A" PORCELAIN ENAMEL PANEL:

MATERIAL: Outer Panel: Porcelain enamel fused to 16 gauge enameling steel.

Inner Panel: Baked enamel prime finish over electro-galvanized and primed steel.

Insulating Core: Moisture resistant spun fiber glass, 6 lb. density.

Gasket: Vinyl gasket of special design.

Fastenings: Self-tapping stainless steel screws.

FINISH AND COLORS: Color as specified in shade required, formula-compounded for uniformity. Smooth or matte finish.

CONSTRUCTION: "Sandwich" construction with overlapping returned edges separated by special vinyl gasket. Fiber-glass insulating core, mechanically supported by stainless steel clips. Entire assembly mechanically fastened through overlapped panel return-edges with self-tapping stainless steel screws. Air space and weep holes provided for moisture control.

WEIGHT: Weight rating for Type "A" Panels may be computed at an average of 6 lbs. per square foot. Special materials or modifications may cause variance of this figure.

SIZES: Thickness shall be $1\frac{3}{8}$ ". Any required panel size may be specified, up to 12 square feet. Structural requirements larger than 12 square feet may be accommodated by dividing panel surfaces

into architecturally proportioned areas—the individual panels normally to be supplied assembled to one-piece backing panel.

"U" RATING: Type "A" panel shall have "U" rating of less than 0.240.

TYPE "C" PORCELAIN ENAMEL PANEL:

MATERIAL: Outer Panel: Porcelain enamel fused to 16 gauge enameling steel.

Inner Panel: Baked enamel prime finish over electro-galvanized and primed steel.

Insulating Core: Moisture-resistant spun fiber glass, 6 lb. density; integrally cast Vitrock backing.

Gasket: Vinyl gasket of special design.

Fastenings: Self-tapping stainless steel screws.

FINISH AND COLORS: Color as specified in shade required, formula-compounded for uniformity. Smooth or matte finish.

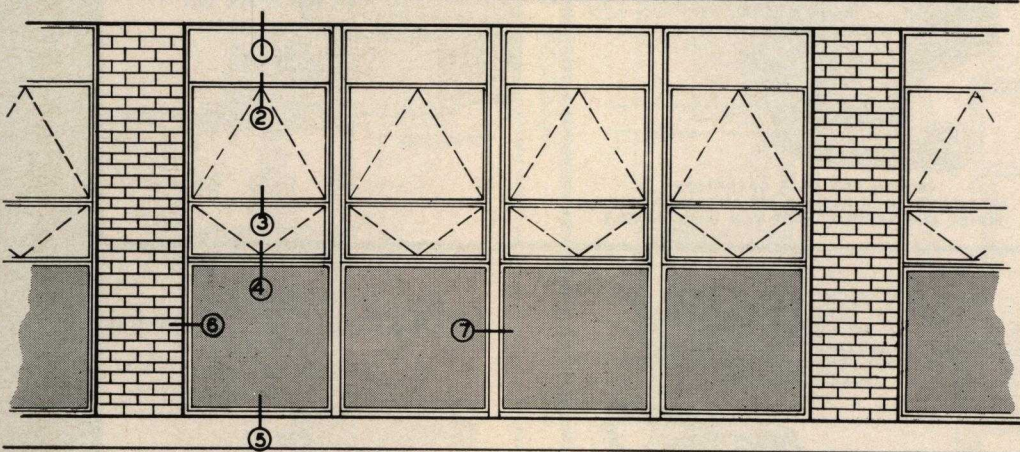
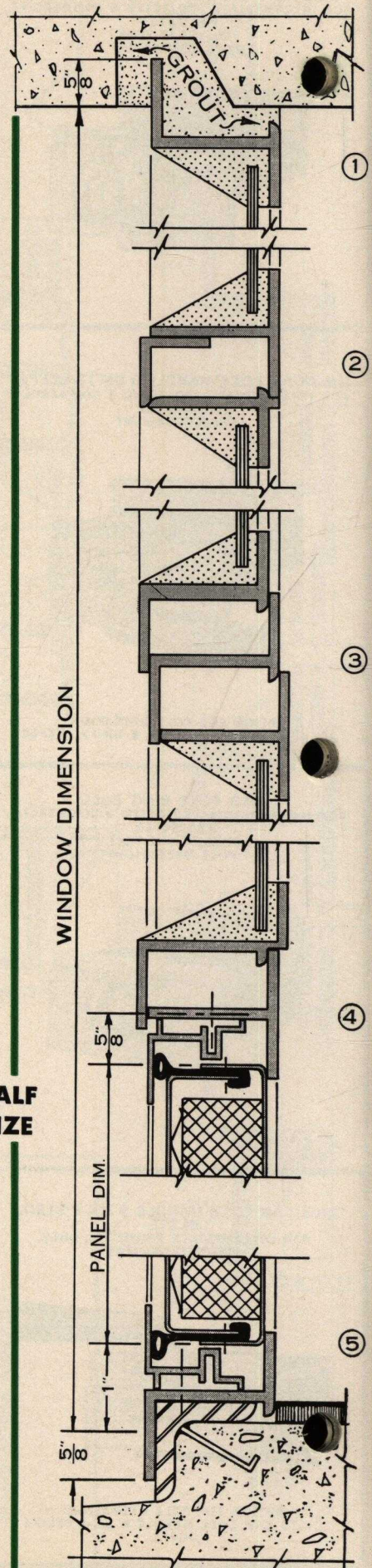
CONSTRUCTION: "Sandwich" construction with overlapping returned edges separated by special vinyl gasket. Fiber-glass insulating core, mechanically supported by stainless steel clips. Entire assembly mechanically fastened through overlapping panel return-edges with self-tapping stainless steel screws. Air space and weep holes provided for moisture control.

WEIGHT: Weight rating for Type "C" Panels may be computed at an average of 8 lbs. per square foot. Special materials or modifications may cause variance of this figure.

SIZES: Thickness shall be $1\frac{3}{8}$ ". Any required panel size may be specified, up to approximately 20 square feet. Structural requirements larger than 20 square feet may be accommodated by dividing panel surfaces into architecturally proportioned areas—the individual panels normally to be supplied assembled to one-piece backing panel.

"U" RATING: Type "C" Panel shall have "U" rating of less than 0.230.

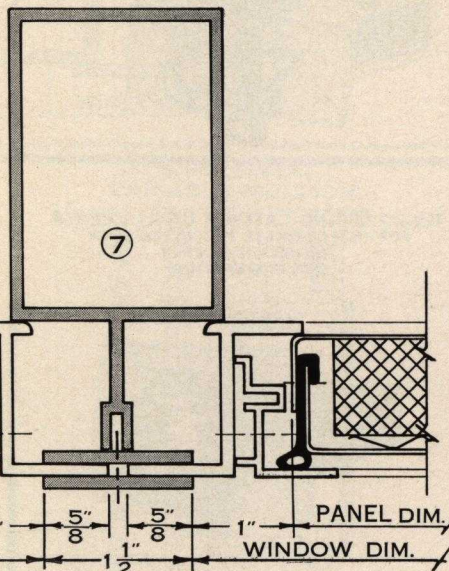
CURTAIN WALL DETAILS



IMMEDIATE PROJECTED CURTAIN WALL

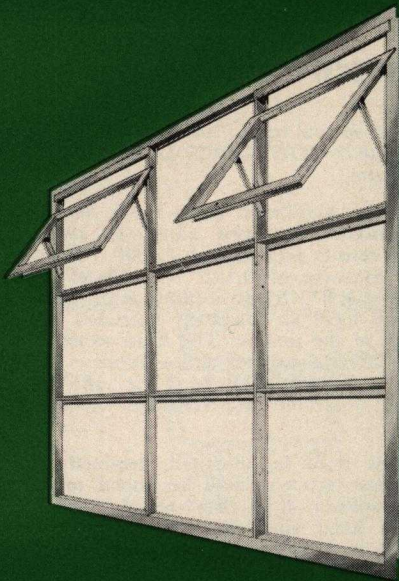
Fast, simple and economical for schools, hospitals, banks . . . many other institutional and commercial buildings. Makes curtain walls which are water-proof, fire-resistant, wind-proof, rigid and permanent! Walls are easily assembled . . . go up on job site . . . panels "fall" into place. Construction takes standard mullions and accessory sections . . . no exposed screw heads around perimeter of panel. Panels to be as directed on architects' plans and manufacturers' shop drawings.

NOTE: BUTTER WITH CAULKING COMPOUND BEFORE ASSEMBLY

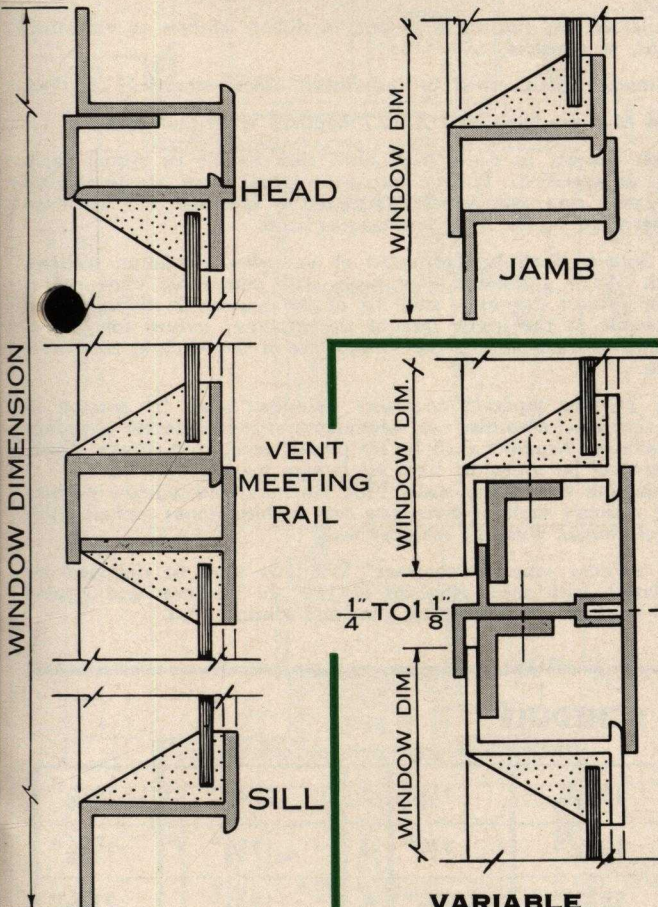


INTERMEDIATE DEEP MULLION

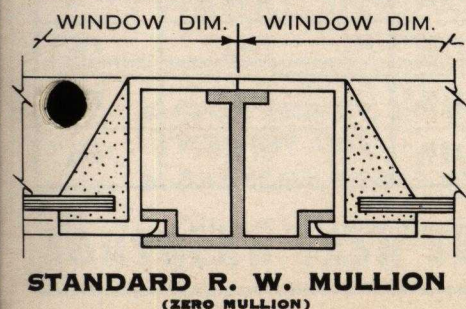
HALF SIZE



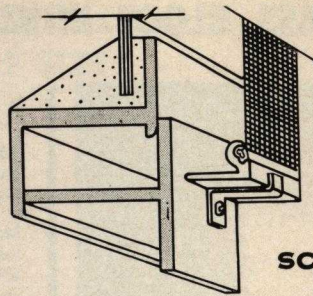
ASSEMBLY DETAILS



MULLION ASSEMBLY DETAILS



NOTE: BUTTER WITH CAULKING COMPOUND BEFORE ASSEMBLY



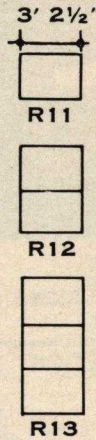
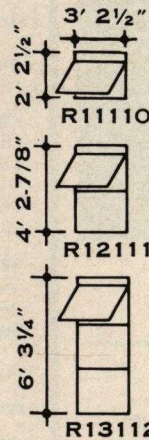
SCREEN ASSEMBLY
DETAIL FOR
WICKET SCREEN
USING CAM
HARDWARE LOCK

STANDARD SCREEN
SHAPES WILL BE
USED FOR UNDER
SCREEN ROTO
OPERATOR.

SCREEN ASSEMBLY

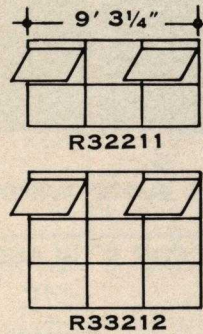
WINDOW SIZES

ROUGH OPENING SUB. 1 1/4" FROM WINDOW DIM.



GLASS SIZES

FIXED - 36" X 24"
VENT - 34" X 22 1/4"



SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: UALCO Lifetime Aluminum Ranch Window Walls shall be fabricated of solid extruded aluminum, alloy 6063-T5, mill finish of not less than 22,000 P.S.I. tensile strength. All sections shall have a minimum thickness of 0.125", except the bottom rail of ventilator sections which shall have a minimum thickness of 0.187". Frame sections shall be 1 1/2" deep, ventilator sections shall be 1 1/2" deep, and muntin sections shall be 1 1/2" deep. All muntins shall have vertical flanges 1 1/2" deep for extra strength and inside flanges of all sections shall have a depth of 3/4" both to conceal seams in insulating glass and to increase section moduli.

Frame and ventilator sections shall have a combined vertical depth of 2-15/16" and a horizontal depth of 1 1/4" to provide extra rigidity of horizontal members.

Positioning arms of ventilators shall be 1" x 0.187" in cross section, attached to frame and vent members with stainless steel shouldered rivets.

The inside face of all windows shall be an absolutely flush surface.

CONSTRUCTION: Frame and ventilator corners shall be mortised, tenoned, and securely riveted.

VENTILATORS: Ventilators shall have specially designed nylon friction shoes, spring loaded to maintain constant pressure at all positions of the ventilator opening. Balance arms shall position ventilator for up to 50% maximum opening.

Ventilators shall have double contact weathering surfaces parallel to the face of the window.

FINISH: Mill finish, unless otherwise specified.

SCREENS: Screens shall be fabricated of either extruded or rolled aluminum sections, the material and design depending upon the type hardware specified for the window. Wicket screens of extruded aluminum sections shall be furnished with cam lock hardware and flat screens of rolled aluminum sections shall be furnished with Roto operators. Screens shall be wired with 18/14 aluminum wire mesh, with either vinyl or aluminum removable spline.

STORM SASH: Storm sash, for use with Roto operators, shall be fabricated of extruded aluminum frame sections with vinyl weatherstripping, and shall be factory glazed with DSB glass.

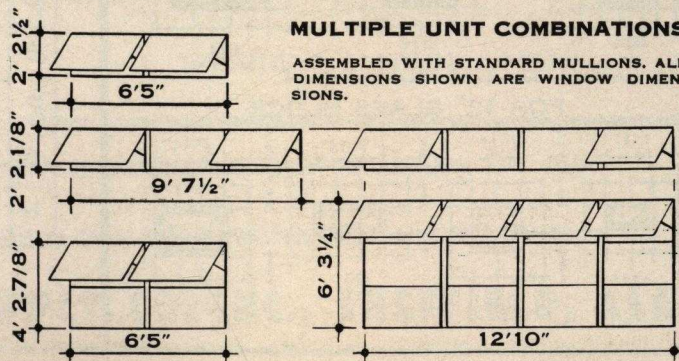
MULLIONS: Mullions shall be UALCO standard types and sizes.

HARDWARE: Hardware shall be furnished at the option of the customer for either cam lock or rotary operation. Cam lock hardware shall be cast white bronze with clear lacquer finish and rotary hardware shall be die cast with aluminum lacquer finish. Hardware screws shall be installed in replaceable aluminum grommets.

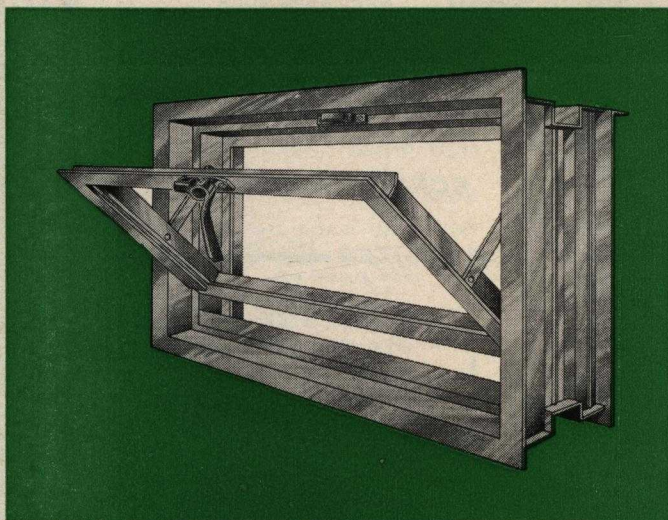
GLAZING: (Under separate contract) UALCO Lifetime Aluminum Window Walls shall be designed for outside glazing with SSB, DSB, plate and 1/2" insulating glass, with either glazing compound or extruded aluminum glazing bead.

MULTIPLE UNIT COMBINATIONS

ASSEMBLED WITH STANDARD MULLIONS. ALL DIMENSIONS SHOWN ARE WINDOW DIMENSIONS.

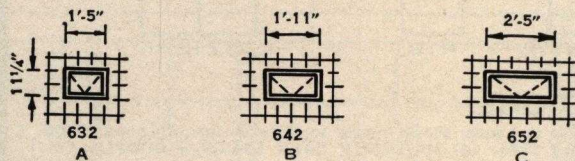


UALCO ALUMINUM GLASS BLOCK WINDOWS

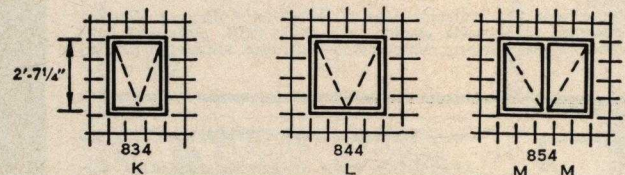
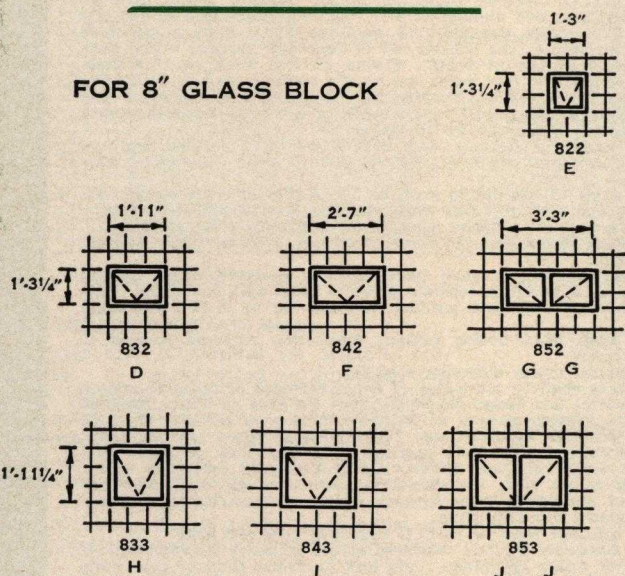


GLASS BLOCK WINDOW SIZES

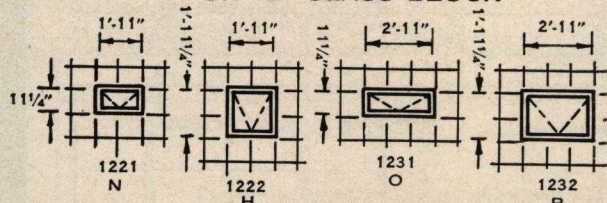
FOR 6" GLASS BLOCK



FOR 8" GLASS BLOCK



FOR 12" GLASS BLOCK



SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be as manufactured to the specifications listed below by SOUTHERN SASH SALES & SUPPLY CO., INC., Sheffield, Alabama.

MATERIAL: UALCO Lifetime Aluminum Glass Block Windows shall be fabricated of specially designed extruded aluminum shapes, 6063-T5 alloy, having an ultimate tensile strength of 22,000 P.S.I. All sections shall have a minimum thickness of 0.125". Ventilator sections shall have a minimum depth of 1-5/8"; frame sections shall have a minimum depth of 4-1/2", and shall have an integrally extruded channel to increase the section modulus of the section. The head section shall have a drip rail extruded as an integral part of this section.

Positioning arms of ventilators shall be 1" x .187" in cross section and shall be attached to frame and ventilator with stainless steel rivets.

CONSTRUCTION: Ventilators shall be mortised, tenoned, and securely riveted at all corners. Frame sections shall be coped to a hairline fit and each corner secured with 3 #10 sheet metal screws. For ribbon window installation frame head and sill sections may be continuous over entire opening up to a maximum length of 12'-0". Frame head sections shall support the Glass Block above, eliminating lintels.

VENTILATORS: Ventilators shall have specially designed nylon friction shoes, spring loaded to maintain constant pressure at all positions of the ventilator opening. Ventilators shall have two continuous weathering contacts.

Ventilators may project in or out, in ribbon window or individual installations, as specified.

FINISH: Standard finish shall be mill finish unless otherwise specified.

MULLIONS: Mullions shall be UALCO standard types and sizes.

HARDWARE: Project in vents shall have cam handle or spring catch hardware, as specified. Project out vents shall have standard cam handle or pole ring cam handle hardware as specified. All hardware shall be cast white bronze with clear lacquer finish.

SCREENS: Screens shall be fabricated of extruded aluminum sections, wired with 18/14 aluminum wire mesh with removable vinyl spline. Screens for project out vents shall be of the horizontal sliding type attachable to the inside face of the window; screens for project in vents shall be attachable to the outside face of the window, removable from inside.

ERECTION: (Under separate contract) Windows shall be erected in prepared openings according to Manufacturer's installation drawings and instructions. Windows shall be set plumb, level, and square. Operating parts shall be protected from all foreign matter.

For erection in masonry walls, Pins, Anchors, and window surfaces contacting masonry shall be given one coat of bituminous asphalt paint at points of contact with the masonry wall.

GLAZING: (Under separate contract) Windows shall be designed for outside glazing with sheet glass up to 1/4" in thickness and glazing compound or with 1/2" insulating glass and glazing bead.

GLASS SCHEDULE

A	13 3/4"	7 7/8"	I	27 3/4"	19 7/8"
B	19 3/4"	7 7/8"	J	17 5/8"	19 7/8"
C	25 3/4"	7 7/8"	K	19 3/4"	27 7/8"
D	19 3/4"	11 7/8"	L	27 3/4"	27 7/8"
E	11 3/4"	11 7/8"	M	17 5/8"	27 7/8"
F	27 3/4"	11 7/8"	N	19 3/4"	7 7/8"
G	17 5/8"	11 7/8"	O	31 3/4"	7 7/8"
H	19 3/4"	19 7/8"	P	31 3/4"	19 7/8"

Fixed and Picture Windows Also Available

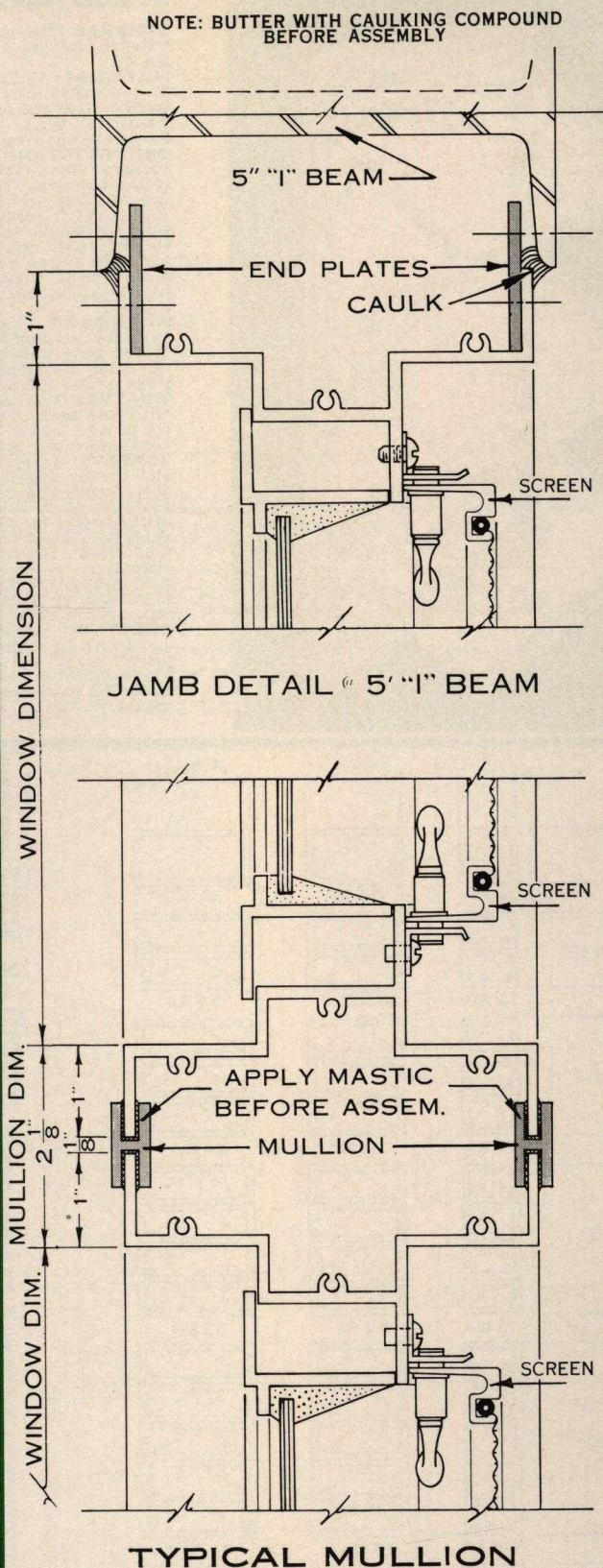
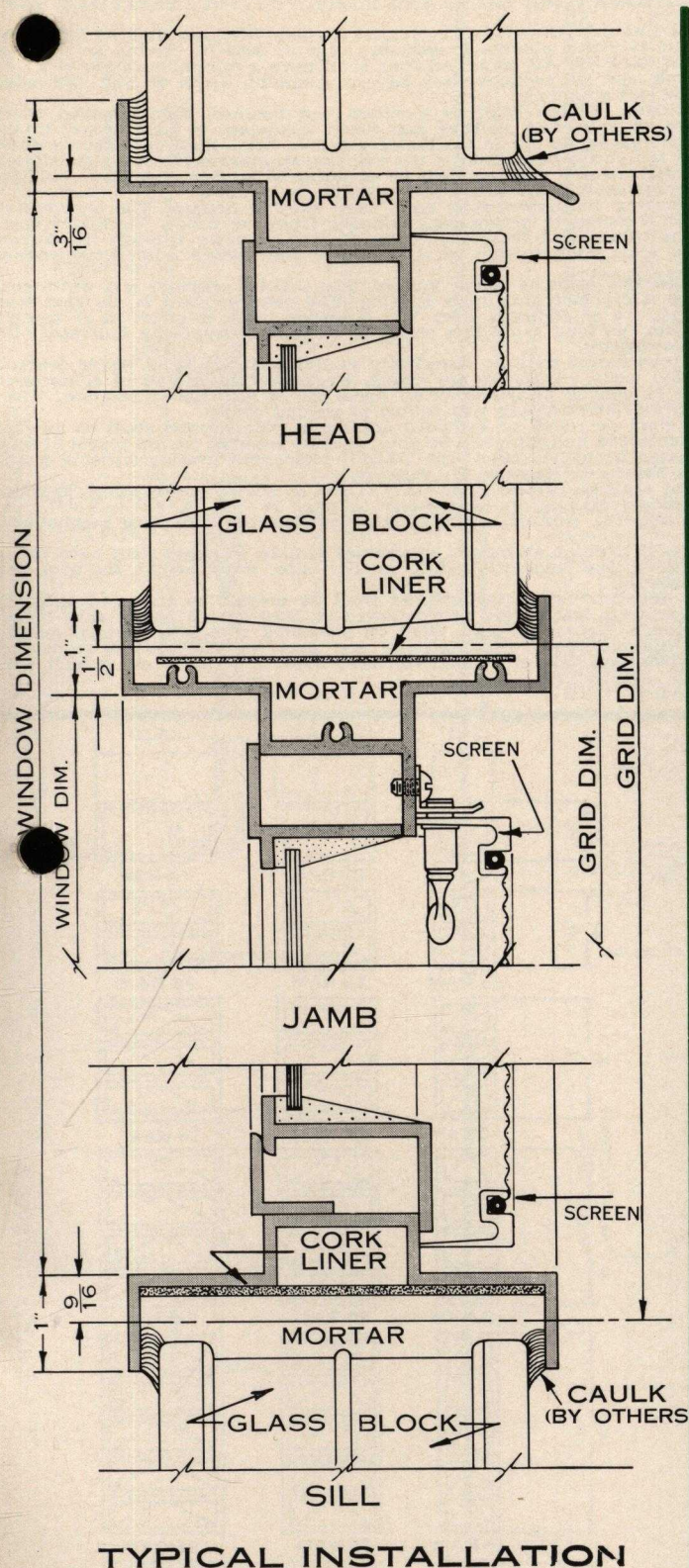
ASSEMBLY DETAILS

(PROJECT-IN ONLY)

ONE-HALF SIZE

Ualco

aluminum glass block windows



NOTE: BUTTER WITH CAULKING COMPOUND BEFORE ASSEMBLY

- UPON REQUEST, WE WILL SUPPLY A COMPLETE ALUMINUM TRIM BROCHURE ON OUR WINDOW LINE.
- FULL SCALE DETAILS WILL BE SUPPLIED FROM OUR ENGINEERING DEPT. UPON REQUEST.

SOUTHERN SASH SALES & SUPPLY CO. INC., SHEFFIELD, ALA.

UALCO ALUMINUM RESIDENTIAL AWNING WINDOW

SPECIFICATIONS

GENERAL: Types and sizes shown herein shall be manufactured to the specifications listed below by SOUTHERN SASH SALES AND SUPPLY CO., INC., SHEFFIELD, ALABAMA.

MATERIAL: UALCO Lifetime Aluminum Residential Awning Windows shall be fabricated of specially designed extruded aluminum sections, alloy of 6063-T5, having an ultimate tensile strength of 22,000 P.S.I. All frame sections shall have a minimum depth of 1 7/8". Ventilator head, jamb, and sill sections shall have a minimum depth of 3/4". Operating hardware shall be die cast aluminum.

CONSTRUCTION: Frame sections shall be mortised and tenoned, then swaged at all corners. Note: There shall be four mortise and tenon fastenings to each corner of the frame sections. When ventilators are in the closed position, there shall be three weathering contacts around the entire perimeter of the ventilators, one that is weatherstripped. The UALCO residential awning window shall be so designed to insure positive venetian blind or shade coverage around the entire perimeter of the window.

OPERATION: All opening ventilators shall open more than 70 degrees. The top ventilator shall lower about 5 inches to permit easy cleaning from the inside. Ventilator operating power shall be transmitted from the center located operator through the torsion rod that extends to each jamb section of the window and fastens onto the operating linkage.

HARDWARE: The operator shall be center located. The UALCO operator is a worm gear operator enclosed in a die cast aluminum housing. The gear segment is die cast zinc. Worm gear and shaft are of stainless steel. The operator crank is offset at 37 degrees up from the stool line. No long projecting shafts or extensions requiring individual fittings on the job are necessary.

WEATHERING: All ventilators shall be completely weatherstripped at all inside contacts with koroseal or vinyl when ventilators are closed. Weatherstripping will be compressed by a load equal to 15 pounds minimum when vents are in the closed position. When ventilators are open weatherstripping will return to normal shape.

SCREENS: Screens shall be rolled or extruded aluminum. The corners shall be mitered and corner angle reinforced and dimpled. Screens shall be inserted in the recess of window frame and secured by swivel clips. The UALCO residential awning window screen shall fit flush with the inside face of the window.

MULLIONS: Mullions shall be furnished by UALCO and as shown on drawings. Mullions shall be UALCO standard awning mullions shown on page 18.

GLAZING: (Under separate contract) Single lights outside bed and face compound—standard.

ACCESSORIES: UALCO lifetime aluminum residential awning windows shall have frame members designed to receive standard UALCO anchor clips, brick mould, fin trim, and other standard accessories.

ERECTION: (Under separate contract) Windows shall be erected in prepared openings according to manufacturers installation instructions and drawings. Windows shall be set plumb level and square. Operating parts shall be protected from any foreign matter. For installation in masonry wall, fins, anchors, and parts of the window contacting masonry shall be given one coat of bituminous asphalt paint at points of contact with masonry wall.

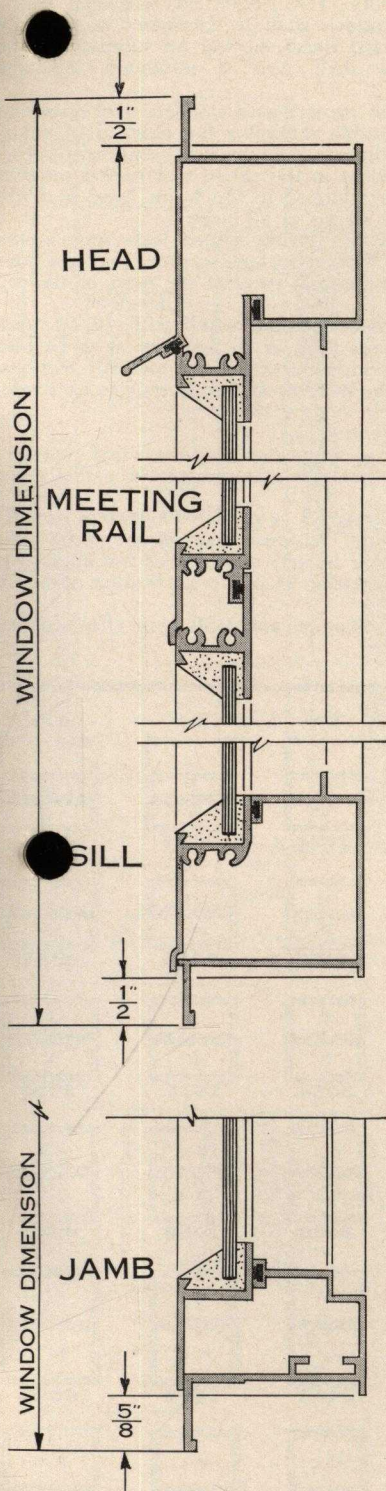
STANDARD SIZES

1' 7 1/8"	12 RA	22 RA	32 RA
2' 2"	13 RA	23 RA	33 RA
3' 2 3/8"	14 RA	24 RA	34 RA
4' 2 5/8"	15 RA	25 RA	35 RA
5' 3"	16 RAA	26 RAA	36 RAA
6' 10 1/2"	17 RAA	27 RAA	37 RAA
8' 2 1/16"			

MODULAR SIZES

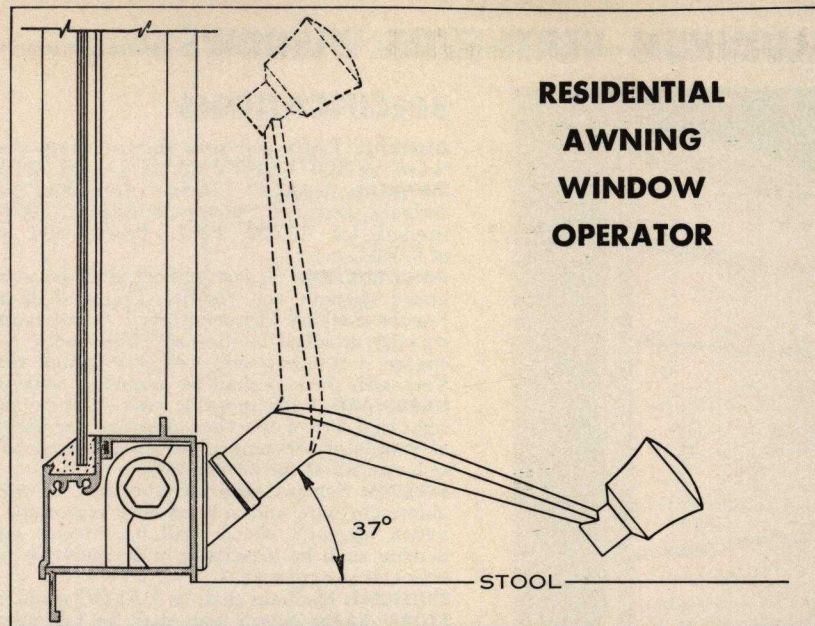
2' 0"	12 RAM	22 RAM	32 RAM
3' 4"	13 RAM	23 RAM	33 RAM
4' 0"	14 RAM	24 RAM	34 RAM
5' 4"	15 RAM	25 RAM	35 RAM
6' 8"	16 RAM	26 RAM	36 RAM
8' 0"	17 RAM	27 RAM	37 RAM

HALF SIZES



NOTE: ON ALL FIN TRIM, BRICK MOLD, AND MULLION INSTALLATIONS—BUTTER WITH CAULKING COMPOUND BEFORE ASSEMBLY.

Installation details

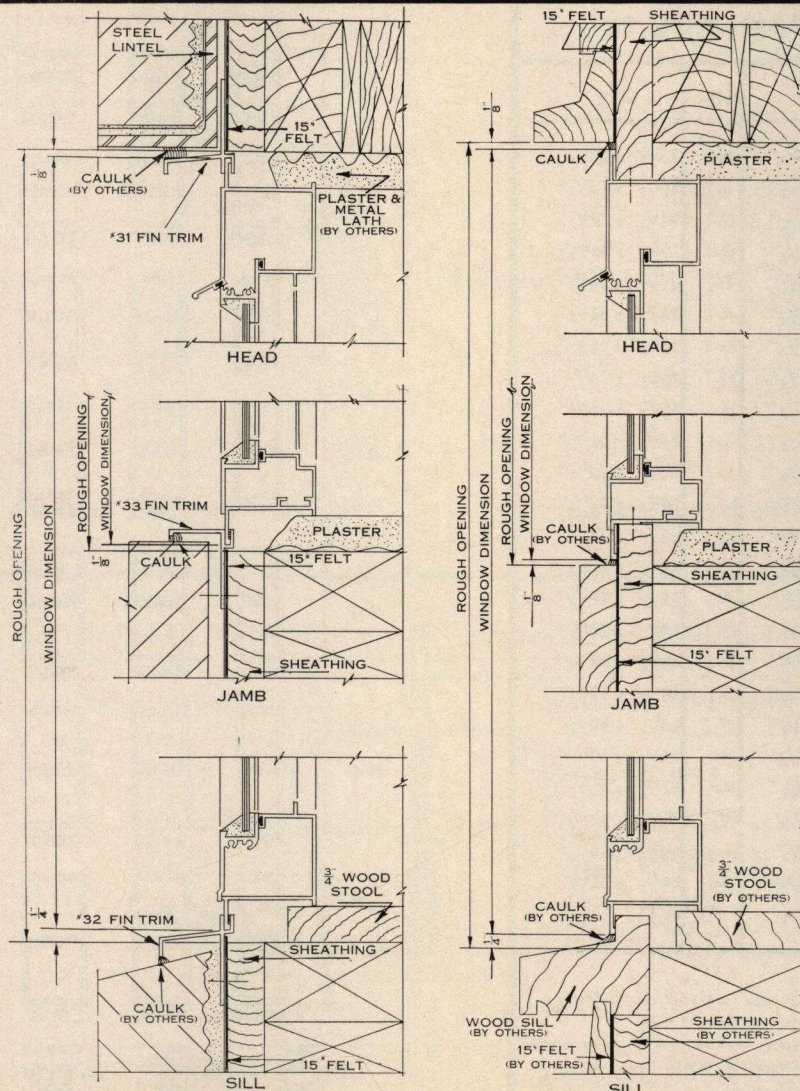


RESIDENTIAL AWNING WINDOW OPERATOR

AWNING MULLIONS AS SHOWN ON PAGE 18 ARE ALSO ADAPTABLE TO THE RESIDENTIAL AWNING WINDOW.

THE STANDARD AWNING PICTURE WINDOW IS ADAPTABLE TO THE RESIDENTIAL AWNING WINDOW BY STANDARD MULLIONS.

NOTE—THE MAXIMUM WIDTH FOR ANY RESIDENTIAL AWNING WINDOW WILL BE 4' - 5 1/8". ANY PARTICULAR HEIGHT WINDOW REQUIRED WILL BE SUPPLIED ON AN ENGINEERED BASIS ONLY.



FRAME CONSTRUCTION

BRICK VENEER



TAKE ADVANTAGE OF UALCO'S ENGINEERING PLANNING SERVICE

Architects, builders and contractors are invited to use Ualco's Engineering Department as their own. We provide a staff of architects and draftsmen for your convenience. This department will do "take-offs" from plans, quote window jobs, give special consideration and advice on any special jobs you may have. Let these fenestration specialists save you time and effort on future jobs.

SOUTHERN SASH'S UALCO - IN MORE BUILDINGS THAN ANY OTHER ALUMINUM WINDOW

**UALCO WINDOWS ARE UNCONDITIONALLY GUARANTEED
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Washington, D. C.

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6104 Page Blvd.
St. Louis 12, Mo.

SOUTHERN SASH SALES & SUPPLY COMPANY, Inc.
SHEFFIELD, ALABAMA

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